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**REMEDIAL INVESTIGATION REPORT FOR OPERABLE UNIT 2
FINAL - JANUARY 21, 1995 - VOLUME 5 OF 6 -
APPENDICES E & F**

01/21/95

**DOE-FN EPAS
500
REPORT**

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REMEDIAL INVESTIGATION REPORT FOR OPERABLE UNIT 2

**FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO**

REMEDIAL INVESTIGATION AND FEASIBILITY STUDY

**VOLUME 5 OF 6
APPENDICES E AND F**



JANUARY 21, 1995

**U.S. DEPARTMENT OF ENERGY
FERNALD FIELD OFFICE**

FINAL

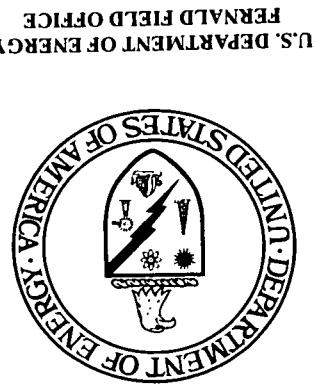
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**REMEDIAl INVESTIGATION
AND
FEASIBILITY STUDY**

**FERNALD ENVIRONMENTAL
MANAGEMENT PROJECT**

**REMEDIAl INVESTIGATION
REPORT
OPERABLE UNIT 2**

**Volume 5 of 6
Appendices E and F
January 21, 1995**



**U.S. DEPARTMENT OF ENERGY
FERNALD FIELD OFFICE**

Appendix E
Inactive Flyash Pile

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KEY TO DATA TABLES

FLTD Filtered Status of the Sample (applies to water samples)

- FILT Filtered sample; filtered status identified on Request for Analysis/Chain of Custody
- UNFI Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody
- *F Filtered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.
- *U Unfiltered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.
- UNKN Unknown; filtered status could not be determined.

L Analytical Support Level (ASL)

The analytical support level for sample analyses and data validation, defined as follows:

- A *Qualitative Field Analysis* - Analogous to EPA analytical level 1.
- B *Qualitative, Semi-Quantitative, and Quantitative Analyses* - Analogous to EPA analytical level 2.
- C *Quantitative with fully defined QA/QC* - Laboratory analyses generated with full QA/QC checks of types and frequencies specified for ASL D according to FEMP-specified analytical protocols for radiological and nonradiological parameters. The analytical methods are identical to ASL D for QA/QC sample analysis and method performance criteria. However, the data package does not typically contain raw instrument output but does include summaries of QA/QC sample results. Laboratories are required to retain, in the project file, raw instrument data to upgrade ASL C reports to ASL D. Analogous to EPA analytical level 3.
- D *Confirmational with complete QA/QC and reporting* - Provides data generated with a full complement of QA/QC checks of specified types and frequencies according to FEMP-specified analytical protocols for radiological and nonradiological parameters. Analogous to EPA analytical level 4.
- E *Nonstandard* - Analyses by nonstandard protocols that often require method development or validation. Analogous to EPA analytical level 5.

NOTE: The number 3 is sometimes used to indicate ASL C. Likewise, the numbers 4 and 5 are sometimes used to indicate ASLs D and E, respectively.

VQ Data Validation Qualifier

- J Analyte was analyzed for and positively identified, but the associated numerical value may not be consistent with the amount present in the environmental sample.

KEY TO DATA TABLES
(continued)**VQ Data Validation Qualifier (continued)**

- N** Analysis indicates that an analyte is present and there are strong indications that the identity is correct.
- R** Data are unusable for any purpose. Analyte was analyzed for, but the presence or absence of the analyte was not verified.
- U** Analyte was analyzed for and was not present above the level of the associated value. Associated numerical value indicates the approximate concentration necessary to detect the analyte in the sample.
- UJ** This is a combination of the U and J qualifiers. Analyte was analyzed for and was not present above the level of the associated value. The associated value may not accurately or precisely represent the concentration necessary to detect the analyte in the sample.
- No data validation qualifier assigned.

TABLE E-1

TABLE E-1A

**INACTIVE FLYASH PILE
SUMMARY OF RI/FS SAMPLE COLLECTION ACTIVITIES
PHASE 1 FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT**

Location	Sample No.	Date Collected	Radionuclides	Pest/PCB ^a	VOC ^b	SVOC ^c	General Chem.	Metals	EP Toxicity	TCLP ^d
SURFACE WATER SAMPLES										
ASIT-009	001174	3/30/89	Total Uranium, Gross Alpha/Beta, Radium-226, Radium-228 only	- ^e	-	-	-	-	-	-
	001175			-	-	-	X ^f	X	-	-
W-11	001107	1/12/89	X	X	-	X	X	-	-	-
	001208	5/14/89	X	-	-	-	-	-	-	-
	001209	5/14/89	X	-	-	-	X	X	-	-
	001247	7/15/90	X	-	-	-	X	X	-	-
	001248	7/15/90	X	-	-	-	-	-	-	-
GROUNDWATER SAMPLES										
1016	003062	3/28/88	X	X	X	X	X	X	-	-
	003906	2/26/89	X	-	-	-	X	X	-	-
	004060	3/29/89	-	X	-	X	-	-	-	-
	066819	12/13/89	X	-	-	-	-	-	-	-
1047	003102	4/20/88	X	-	-	-	-	X	-	-
	003369	7/24/88	X	-	-	-	-	-	-	-
	003648	10/23/88	X	-	-	-	-	-	-	-
	003855	1/22/89	X	-	-	-	X	X	-	-
	066830	12/12/89	X	-	-	-	-	-	-	-

See footnotes at end of table

TABLE E-1A
(Continued)

Location	Sample No.	Date Collected	Radionuclides	Pest/PCB ^a	VOC ^b	SVOC ^c	General Chem.	Metals	EP Toxicity	TCLP ^d
GROUNDWATER SAMPLES (Continued)										
1711	047005	6/11/92	-	-	-	-	-	X	-	-
	047009	6/19/92	-	-	-	-	-	X	-	-
2016	003063	3/28/88	X	X	X	X	X	X	-	-
	003434	8/3/88	X	-	-	-	X	X	-	-
	003685	11/4/88	X	-	-	-	X	X	-	-
	003551	2/7/89	-	X	-	X	-	-	-	-
	003883	2/7/89	X	-	-	-	X	X	-	-
	004152	7/26/89	X	-	-	-	X	X	-	-
	004213	3/4/90	X	-	-	-	X	X	-	-
	003998	1/22/89	X	-	-	-	X	X	-	-
2047	004093	5/2/89	X	-	-	-	X	X	-	-
	004160	7/28/89	X	-	-	-	X	X	-	-
	004220	4/3/90	X	-	-	-	X	X	-	-
	038304	1/28/92	X	-	-	-	X	X	-	-
2402	038339	4/7/92	-	-	-	-	X	X	-	-
	003082	4/8/88	X	-	-	-	X	X	-	-
3016	003435	8/3/88	X	-	-	-	X	X	-	-
	003686	11/4/88	X	-	-	-	X	X	-	-
	003882	2/7/89	X	-	-	-	X	X	-	-
	004241	3/4/90	X	-	-	-	X	X	-	-
	038346	4/9/92	-	-	-	-	X	X	-	-
3402	038384	6/10/92	-	-	-	-	X	X	-	-
	004090	5/1/89	X	-	-	-	X	X	-	-
4016	066867	12/12/89	X	-	-	-	-	-	-	-

See footnotes at end of table

TABLE E-1A
(Continued)

Location	Sample No.	Sample Interval (ft) ^g	Radionuclides	Pest/PCB ^a	VOC ^b	SVOC ^c	General Chem.	Metals	EP Toxicity	TCLP ^d
SEDIMENT SAMPLES										
ASIT-008	009048	0.0-0.5	Total Uranium, Gross Alpha/Beta, Radium-226, Radium-228 only	-	-	-	-	-	-	-
ASIT-009	009049	0.0-0.5	Total Uranium, Gross Alpha/Beta, Radium-226, Radium-228 only	-	-	-	-	-	-	-
W-11	009037	0.0-0.5	Total Uranium, Gross Alpha/Beta, Radium-226, Radium-228 only	-	-	-	-	-	-	-
	009103	0.0-0.5	Total Uranium, Radium-226, Radium-228 only	-	-	-	-	-	-	-
	009145	0.0-0.5	-	X	X	X	-	X	-	-
	009155	0.0-0.5	Total Uranium, Gross Alpha/Beta, Radium-226, Radium-228 only	-	-	-	-	-	-	-
SURFACE SAMPLES										
N478000 E1379000	005017	0.0-2.0	X	-	-	-	-	-	-	-
SUBSURFACE SAMPLES										
1016	007233	1.5-3.0	X	-	-	-	-	-	-	-
1047	007301	9.0-10.5	X	-	-	-	-	-	-	-
1708	067095	6.0-7.5	X	-	-	-	-	-	-	-
	067096	7.5-9.0	-	X	X	X	-	X	-	-
	067099	12.0-13.5	-	-	-	-	-	-	-	X
	067101	15.0-16.5	X	-	-	-	-	-	-	-
	067102	16.5-18.0	-	X	X	X	-	X	-	-
	067111	30.0-31.5	X	-	-	-	-	-	-	-
	067112	31.5-33.0	-	X	X	X	-	X	-	-

See footnotes at end of table

TABLE E-1A
(Continued)

Location	Sample No.	Sample Interval (ft) ^g	Radionuclides	Pest/PCB ^a	VOC ^b	SVOC ^c	General Chem.	Metals	EP Toxicity	TCLP ^d
SUBSURFACE SAMPLES (Continued)										
1708 (Continued)	067115	composite	-	-	-	-	-	-	-	X
	067118	composite	-	-	-	-	-	-	-	metals only
1709	067062	4.5-6.0	X	-	-	-	-	-	-	-
	067064	7.5-9.0	-	X	X	X	-	X	-	-
	067065	9.0-10.5	-	-	-	-	-	-	-	X
	067071	13.5-15.0	-	X	X	X	-	X	-	-
	067072	15.0-16.5	X	-	-	-	-	-	-	-
	067081	28.5-30.0	X	-	-	-	-	-	-	-
1710	067028	3.0-4.5	X	-	-	-	-	-	-	-
	067029	4.5-5.0	-	X	X	X	-	X	-	-
	067032	9.0-10.5	-	X	X	X	-	X	-	-
	067038	16.5-18.0	-	-	-	-	-	-	-	X
	067039	16.5-18.0	-	-	-	-	-	-	X	-
	067043	22.5-23.0	X	-	-	-	-	-	-	-
	067046	27.0-28.5	X	-	-	-	-	-	-	-
	067047	28.5-30.0	-	X	X	X	-	X	-	-
	067051	composite	-	-	-	-	-	-	-	X
1711	067010	1.5-3.0	X	-	-	-	-	-	-	-
	067012	4.5-6.0	-	X	X	X	-	X	-	-
	067014	7.5-9.0	X	-	-	-	-	-	-	-
	067015	9.0-10.5	-	X	X	X	-	X	-	-

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000010

See footnotes at end of table

TABLE E-1A
(Continued)

Location	Sample No.	Sample Interval (ft) ^g	Radionuclides	Pest/PCB ^a	VOC ^b	SVOC ^c	General Chem.	Metals	EP Toxicity	TCLP ^d
SUBSURFACE SAMPLES (Continued)										
1711 (Continued)	067016	10.5-12.0	-	-	-	-	-	-	-	X
	067017	10.5-12.0	-	-	-	-	-	-	X	-
	067019	13.5-15.0	X	-	-	-	-	-	-	-
	067020	18.0-19.5	-	X	X	X	-	X	-	-
	067021	composite	-	-	-	-	-	-	-	X
1791	067121	27.0-28.5	X	-	-	-	-	-	-	-
	067122	28.5-30.0	-	X	X	X	-	X	-	-
	067124	composite	-	-	-	-	-	-	-	X
	067125	composite	-	-	-	-	-	-	-	X
1849	067604	6.0-7.5	-	-	X	X	TOC ^h only	-	-	-
	067609	13.5-15.0	-	-	X	X	TOC only	-	-	-
	067618	28.5-30.0	X	-	-	-	TOC only	-	-	-
1850	067627	6.0-7.5	-	-	X	X	TOC only	-	-	-
	067632	13.5-15.0	-	-	X	X	TOC only	-	-	-
	067633	15.0-16.5	-	-	-	-	TOC only	-	-	-
2047	008960	25.0-26.5	X	-	-	-	-	-	-	-
2401	038486	0.0-65.0	Total Uranium and Total Thorium only	-	-	-	-	-	-	-
4016	010441	50.0-51.5	X	-	-	-	-	-	-	-
	010450	95.0-96.5	X	-	-	-	-	-	-	-
	010454	115.0-116.5	X	-	-	-	-	-	-	-

See footnotes at end of table

TABLE E-1A
(Continued)

^aPest/PCB = Pesticide/Polychlorinated Biphenyl

^bVOC = Volatile Organic Compound

^cSVOC = Semivolatile Organic Compound

^dTCLP = Toxicity Characteristic Leaching Procedure

^eSample not analyzed for this parameter

^fX = Sample analyzed for parameter indicated

^gThe sample interval is depth, in feet, below the ground surface.

^hTOC = Total Organic Carbon

TABLE E-1B

INACTIVE FLYASH PILE
SUMMARY OF RI/FS SAMPLE COLLECTION ACTIVITIES
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Monitoring Well, Hydropunch™, or Sample Location	Sample Numbers	Target Analyte List 20.03.05	
		Total Uranium Screening A	Full HSL, Gen. GW Qual., Full Rad. B
SURFACE WATER SAMPLES			
IFP-SW-01		X	X
IFP-SW-02	111828		X
	111829	X	
	112022 ^b		X
	112024 ^b	X	
IFP-SW-03	111819		X
	111824	X	
	112026 ^b	X	
	112027 ^b		X
IFP-SW-04	111820		X
	111822	X	
	112015 ^b		X
	112019 ^b	X	
IFP-SW-05	112029	X	
IFP-SW-06	112030	X	
	112031	X	
IFP-SW-07	112032	X	
IFP-SW-08	112033	X	
IFP-SW-09	112034	X	
IFP-SW-10	113491	X	
IFP-SW-11	116459	X	
IFP-SW-12	116460	X	
GROUNDWATER SAMPLES			
1016		X	X
1047	110892		X
	110893	X	
1711		X	X
1954	Moved to South Field		

See footnotes at end of table

TABLE E-1B
(Continued)

Monitoring Well, Hydropunch™, or Sample Location	Sample Numbers	Target Analyte List 20.03.05	
		Total Uranium Screening A	Full HSL, Gen. GW Qual., Full Rad. B
GROUNDWATER SAMPLES (Continued)			
1999	111922	X	
2016	111996		X
	112007	X	
2047	110894		X
	110895	X	
2402	116225		X
	116226 ^b		X ^d
	116227	X	
	116228 ^b	X	
2955	113801		X
	113803	X	
11000	111759	X	
11001	111690	X	
11002	116461	X	
11003	111840	X	
11004	111855	X	
11005		X	
11006		X	
11007	110679	X	
11008			
11047 ^b	116318	X	
11048 ^b	116351	X	
11049 ^b	116356	X	
11050 ^b	116454	X	
11051 ^b	116437	X	

See footnotes at end of table

TABLE E-1B
(Continued)

Sample Location	Sample Number	Sample Interval (ft.)	Target Analyte List 20.03.05						
			Screening	Chem/Rad	RCRA/Geotechnical				
			A	C	D	E	F	I	J
SEDIMENT SAMPLES									
IFP-SD-01		0 - 0.5		X				X	
IFP-SD-02	111812	0 - 0.5		X					X
	111823				SA,HA				
	111830				TOC				
	112021 ^b			X					
IFP-SD-03	111813	0 - 0.5		X ^c					
	116219			X					
IFP-SD-04	111815	0 - 0.5		X ^c					
	112017			X					
SURFACE SAMPLES									
IFP-SS-01	111790	0 - 0.5		X					
IFP-SS-02	111791	0 - 0.5		X					
IFP-SS-03	111792	0 - 0.5		X					
IFP-SS-04	111793	0 - 0.5		X					
IFP-SS-05	111794	0 - 0.5		X					X
	111826				SA,HA,W				
IFP-SS-06	111795	0 - 0.5		X					
IFP-SS-07	111796	0 - 0.5		X					
SUBSURFACE SAMPLES									
1954	Moved to South Field								
1994		0.5 - 2.0			X				
	116264	2.0 - 3.5		X	SA				X
	116265 ^a	3.5 - 4.0	X						
		4.0 - 6.0		X	SA			X	
	116277 ^a	11.5 - 12.0	X						
		12.0 - 14.0		X	X				
	116283	14.0 - 15.5		X					X
	116284 ^b	15.5 - 16.0	X						
	116293 ^a	21.5 - 22.0	X						
	116295 ^b	22.0 - 23.5						X	
	116301 ^a	26.0 - 27.5		X					
	116302 ^b	27.5 - 28.0	X						
	116304 ^b	28.0 - 30.0							X

See footnotes at end of table

TABLE E-1B
(Continued)

Sample Location	Sample Number	Sample Interval (ft.)	Target Analyte List 20.03.05							
			Screening		Chem/Rad	RCRA/Geotechnical				
			A	C	D	E	F	I	J	
SUBSURFACE SAMPLES (Continued)										
1994 (continued)	116308 ^b				TOC					
	116309 ^b	32.0 - 34.0			X ^g					
	116312 ^b	36.0 - 37.5		X						
	116313 ^b	37.5 - 38.0	X							
	116314 ^b	37.5 - 38.0	X							
1995		0.5 - 2.0	X		X					
	116080 ^a	2.0 - 3.5		X						
	116089 ^a	3.0 - 5.0						X		
	116081 ^b	3.5 - 4.0	X							
	116090 ^b	8.0 - 9.0		X						
	116392 ^b			X ^m						
	116091 ^b	9.0 - 9.5	X							
	116094	11.0 - 11.5	X	X	SA			X		
	116103	17.0 - 17.5	X	X	X					
	116114 ^b	24.0 - 25.5						X		
	116115 ^b	25.5 - 26.0	X							
	116118	27.5 - 28.0	X	X	X					
	116172	30.0 - 31.5		X			X		X	
	116173 ^b	31.5 - 32.0	X							
1996		0.5 - 2.0	X	X	X					
	112073	2.0 - 4.0		X ^d					X	
		4.0 - 6.0	X	X	SA			X		
	112077 ^b	8.0 - 9.5		X						
	112079 ^b	9.5 - 10.0	X							
	112080 ^b	10.0 - 12.0						X		
	112081 ^b	12.0 - 13.0						X		
	112082 ^b	13.0 - 13.5		X ^d						
	112084 ^b	14.0 - 15.0		X ^c						
	112086 ^b	15.0 - 15.5	X							
	112087 ^b	16.0 - 16.5		X ^k						
	116070	20.0 - 21.5		X					X	
	116072	21.5 - 22.0	X							

See footnotes at end of table

TABLE E-1B
(Continued)

Sample Location	Sample Number	Sample Interval (ft.)	Target Analyte List 20.03.05								
			Screening		Chem/Rad	RCRA/Geotechnical					
			A	C	D	E	F	I	J		
SUBSURFACE SAMPLES (Continued)											
1997	116177	0.0 - 1.5		X	X						
	116178	1.5 - 2.0	X								
	116184	5.5 - 6.0	X						X		
		6.0 - 8.0	X	X	SA			X			
	116192	10.0 - 11.5		X	X						
	116193	11.5 - 12.0	X								
		12.0 - 14.0							X		
	116199	15.5 - 16.0	X	X							
	116216 ^b	26.0 - 27.5							X		
	116241 ^b	28.0 - 28.5	X								
	116243 ^b	28.5 - 30.0			X						
	116244 ^b	30.0 - 30.5	X								
	116249 ^b	32.0 - 34.0							X		
	116252 ^b	34.0 - 35.5		X							
	116253 ^b	35.5 - 36.0	X								
	116255 ^b	36.0 - 38.0			X ^g						
	116256 ^b				TOC						
	116257 ^b	38.0 - 39.0		X							
	116258 ^b	39.0 - 39.5	X								
1998	112040	0.0 - 2.0			X ^g						
	116073	0.0 - 1.5			TOC						
	116075 ^b	0.0 - 1.5							X		
	112044	1.5 - 2.0	X								
	112041	2.0 - 4.0							X		
	112045 ^a	2.0 - 3.5		X							
	116074 ^b	2.0 - 3.5							X		
	112053 ^b	7.5 - 8.0	X								
	112054 ^b	8.0 - 9.5		X							
	112057	10.0 - 11.5		X	SA			X			
	112059	11.5 - 12.0	X								
	112062	13.5 - 14.0			TOC				X		
	112063 ^a	14.0 - 16.0			X ^g						

See footnotes at end of table

TABLE E-1B
(Continued)

Sample Location	Sample Number	Sample Interval (ft.)	Target Analyte List 20.03.05						
			Screening	Chem/Rad	RCRA/Geotechnical				
		A	C	D	E	F	I	J	
SUBSURFACE SAMPLES (Continued)									
1998 (Continued)	112064	16.0 - 17.0	X					X	X
	112065	17.0 - 18.5		X					
	112066	18.5 - 19.0	X				X		X
1999 ^b	111920	12.0 - 12.5	X						
	111921	12.5 - 13.0	X						
2955	112955		X						
	112956 ^b	50.0 - 65.0				SA			
11000 ^b	111762	16.5 - 17.0	X						
	111763	17.0 - 17.5	X						
	111764	17.5 - 18.0	X						
11001 ^b	111730	21.0 - 21.5	X						
	111731	21.5 - 22.0	X						
11002 ^b	116462	16.5 - 17.0	X						
11003 ^b	111854	25.5 - 26.0	X						
11004 ^b	111895	24.0 - 24.5	X						
	111896	24.5 - 25.0	X						
11005 ^b	111984	10.5 - 11.0	X						
	116121	18.0 - 18.5	X						
11006 ^b	111966	22.5 - 24.0	X						
	111969	28.0 - 28.5	X						
	113492	22.5 - 24.0		X ^f					
11007 ^b	110678	22.5 - 23.0	X						
11008 ^b	116154	21.0 - 21.5	X						
11048 ^b	116344	21.0 - 22.0	X						
	116346		X						
	116348	26.0 - 27.5	X						
	116350		X						
11049 ^b	116353	6.5 - 8.0	X						
	116355		X						
	116358	11.5 - 12.5	X						
	116360		X						

See footnotes at end of table

TABLE E-1B
(Continued)

Sample Location	Sample Number	Sample Interval (ft.)	Target Analyte List 20.03.05						
			Screening		Chem/Rad		RCRA/Geotechnical		
			A	C	D	E	F	I	J
SUBSURFACE SAMPLES (Continued)									
11050 ^b	116451	10.0 - 12.0	X						
	116453		X						
	116456	16.0 - 18.0	X						
	116458		X						
11051 ^b	116438	21.0 - 22.0		X ^d					
	116439		X						
	116441	22.0 - 24.0			X				
	116442		X						
	116445	28.0 - 30.0	X						
	116447		X						
11052 ^b	116427	19.0 - 21.0			X				
	116428		X						
	116431	25.0 - 27.0	X						
	116433		X						
11053 ^b	116419	18.0 - 20.0	X						
	116420		X						
	116421	24.0 - 26.0	X						
	116422		X						
11054 ^b	116340	16.0 - 17.0			X ^j				
	116341	23.0 - 24.0			X ^j				
11055 ^b	116331	16.0 - 18.0			X ^j				
	116332	23.5 - 25.0			X ^j				
11056 ^b	116335	17.0 - 18.0			X ^j				
	116336	23.0 - 24.0			X ^j				
11057 ^b	116337	17.0 - 18.0			X ^j				
	116338	23.0 - 24.0			X ^j				

See footnotes at end of table

TABLE E-1B
(Continued)

TARGET ANALYTE LIST (TAL) DETAILS:

[A] Water/Soil - Total Uranium	[E] CON=Consolidation Test
[B] Water - Full Hazardous Substance List (HSL), Full Rad., General Groundwater Quality Parameters	[F] HC=Hydraulic Conductivity
[C] Soil/Sediment/Sludge/Waste - Full HSL, Full Rad.	[I] Toxicity Characteristic Leaching Procedure (TCLP) plus copper, iron, manganese, and zinc
[D] <u>Classification Tests</u>	[J] Dry Unit Weight
SG=Specific Gravity	
W=Water Content	
LL=Liquid Limit	
PL=Plastic Limit	
<u>Grain Size</u>	
SA =Sieve Analysis	
HA=Hydrometer Analysis	
<u>Other</u>	
TOC=Total Organic Carbon	

NOTES: X = Sample analyzed for parameter(s) indicated, except when shaded.

The shaded areas represent samples or analyses that were specified in the Sampling and Analysis Plan (SAP) but were not collected or performed. These differences may be due to field conditions (e.g., dry well) or laboratory variances (e.g., missed holding time).

^aSubstitute samples for samples specified in the SAP

^bAdditional samples not specified in the SAP

^cTAL B or C without Rad.

^dTAL B or C with Full Rad., Metals, and cyanide only

^eTAL B or C with Full Rad. only

^fTAL B or C without volatile organic compounds (VOCs)

^gTAL B or D without total organic carbon (TOC)

^hUnfiltered metals and Full Rad. only

ⁱTotal uranium, thorium, and radium

^jVOCs, semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and pesticides only

^kSVOCs, PCBs, and pesticides only

^lVOCs, Rad., metals, and cyanide only

^mVOCs only

ⁿMetals only

^oTotal uranium, total thorium, isotopic uranium, and isotopic thorium

^pPCBs and pesticides only

TABLE E-2

CHARTS

TABLE E-2A
INACTIVE FLYASH PILE
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND IN SURFACE SOIL
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
METALS							
IFP-SS-01	111790	0 - .5	16-APR-93	Arsenic	33.200	-	11.608 mg/kg
IFP-SS-01	111790	0 - .5	16-APR-93	Barium	105.000	-	88.5 mg/kg
IFP-SS-01	111790	0 - .5	16-APR-93	Beryllium	2.100	-	.6 mg/kg
IFP-SS-01	111790	0 - .5	16-APR-93	Cyanide	.700	-	.23 mg/kg
IFP-SS-01	111790	0 - .5	16-APR-93	Lead	31.300	-	29.575 mg/kg
IFP-SS-01	111790	0 - .5	16-APR-93	Selenium	8.200	-	.72 mg/kg
IFP-SS-01	111790	0 - .5	16-APR-93	Sodium	74.500	-	55.145 mg/kg
IFP-SS-01	111790	0 - .5	16-APR-93	Molybdenum	7.200	-	0 mg/kg
IFP-SS-01	111790	0 - .5	16-APR-93	Copper	41.100	-	15.7 mg/kg
IFP-SS-02	111791	0 - .5	16-APR-93	Beryllium	.610	-	.6 mg/kg
IFP-SS-02	111791	0 - .5	16-APR-93	Sodium	123.000	-	55.145 mg/kg
IFP-SS-02	111791	0 - .5	16-APR-93	Silver	3.300	-	0 mg/kg
IFP-SS-02	111791	0 - .5	16-APR-93	Magnesium	21300.000	-	1460 mg/kg
IFP-SS-02	111791	0 - .5	16-APR-93	Calcium	84000.000	-	5296.781 mg/kg
IFP-SS-03	111792	0 - .5	16-APR-93	Calcium	103000.000	-	5296.781 mg/kg
IFP-SS-03	111792	0 - .5	16-APR-93	Sodium	77.000	-	55.145 mg/kg
IFP-SS-03	111792	0 - .5	16-APR-93	Magnesium	16400.000	-	1460 mg/kg
IFP-SS-04	111793	0 - .5	16-APR-93	Beryllium	.720	-	.6 mg/kg
IFP-SS-04	111793	0 - .5	16-APR-93	Calcium	82300.000	-	5296.781 mg/kg
IFP-SS-04	111793	0 - .5	16-APR-93	Cadmium	3.100	-	.77 mg/kg
IFP-SS-04	111793	0 - .5	16-APR-93	Sodium	94.200	-	55.145 mg/kg
IFP-SS-04	111793	0 - .5	16-APR-93	Silver	4.200	-	0 mg/kg
IFP-SS-04	111793	0 - .5	16-APR-93	Potassium	1360.000	-	1349.53 mg/kg
IFP-SS-04	111793	0 - .5	16-APR-93	Magnesium	15400.000	-	1460 mg/kg
IFP-SS-04	111793	0 - .5	16-APR-93	Copper	16.400	-	15.7 mg/kg
IFP-SS-05	111794	0 - .5	16-APR-93	Beryllium	.680	-	.6 mg/kg
IFP-SS-05	111794	0 - .5	16-APR-93	Potassium	2030.000	-	1349.53 mg/kg
IFP-SS-05	111794	0 - .5	16-APR-93	Molybdenum	5.100	-	0 mg/kg
IFP-SS-05	111794	0 - .5	16-APR-93	Magnesium	25900.000	-	1460 mg/kg
IFP-SS-05	111794	0 - .5	16-APR-93	Calcium	81000.000	-	5296.781 mg/kg
IFP-SS-05	111794	0 - .5	16-APR-93	Sodium	155.000	-	55.145 mg/kg
IFP-SS-05	111794	0 - .5	16-APR-93	Silver	5.000	-	0 mg/kg
IFP-SS-06	111795	0 - .5	16-APR-93	Beryllium	.700	-	.6 mg/kg
IFP-SS-06	111795	0 - .5	16-APR-93	Magnesium	38000.000	-	1460 mg/kg
IFP-SS-06	111795	0 - .5	16-APR-93	Calcium	74000.000	-	5296.781 mg/kg
IFP-SS-06	111795	0 - .5	16-APR-93	Molybdenum	4.800	-	0 mg/kg

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G00021

FEMP-OOU2-6 FINAL
January 21, 1995

6509

TABLE E-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
METALS (Continued)							
IFP-SS-06	111795	0 - .5	16-APR-93	Sodium	139.000	-	55.145 mg/kg
IFP-SS-06	111795	0 - .5	16-APR-93	Silver	4.800	-	0 mg/kg
IFP-SS-06	111795	0 - .5	16-APR-93	Potassium	1820.000	-	1349.53 mg/kg
IFP-SS-07	111796	0 - .5	16-APR-93	Barium	89.500	-	88.5 mg/kg
IFP-SS-07	111796	0 - .5	16-APR-93	Beryllium	.910	-	.6 mg/kg
IFP-SS-07	111796	0 - .5	16-APR-93	Calcium	142000.000	-	5296.781 mg/kg
IFP-SS-07	111796	0 - .5	16-APR-93	Sodium	223.000	-	55.145 mg/kg
IFP-SS-07	111796	0 - .5	16-APR-93	Silver	2.800	-	0 mg/kg
IFP-SS-07	111796	0 - .5	16-APR-93	Potassium	1370.000	-	1349.53 mg/kg
IFP-SS-07	111796	0 - .5	16-APR-93	Magnesium	55000.000	-	1460 mg/kg
RADIOMUCLIDES							
IFP-SS-01	111790	0 - .5	16-APR-93	GROSS ALPHA	37.800	-	0 pCi/g
IFP-SS-01	111790	0 - .5	16-APR-93	GROSS BETA	30.800	-	0 pCi/g
IFP-SS-01	111790	0 - .5	16-APR-93	RA-226	2.700	-	1.528 pCi/g
IFP-SS-01	111790	0 - .5	16-APR-93	RA-228	2.620	-	1.17 pCi/g
IFP-SS-01	111790	0 - .5	16-APR-93	SR-90	1.140	J	0 pCi/g
IFP-SS-01	111790	0 - .5	16-APR-93	U-TOTAL	12.300	-	3.24 mg/kg
IFP-SS-01	111790	0 - .5	16-APR-93	U-238	2.980	-	1.27 pCi/g
IFP-SS-01	111790	0 - .5	16-APR-93	U-234	3.110	-	1.319 pCi/g
IFP-SS-01	111790	0 - .5	16-APR-93	TH-TOTAL	21.400	-	10.7 mg/kg
IFP-SS-01	111790	0 - .5	16-APR-93	TH-232	2.330	-	1.469 pCi/g
IFP-SS-01	111790	0 - .5	16-APR-93	TH-230	2.770	-	2.112 pCi/g
IFP-SS-01	111790	0 - .5	16-APR-93	TH-228	2.710	-	1.519 pCi/g
IFP-SS-02	111791	0 - .5	16-APR-93	GROSS ALPHA	20.100	-	0 pCi/g
IFP-SS-02	111791	0 - .5	16-APR-93	U-234	1.320	-	1.319 pCi/g
IFP-SS-02	111791	0 - .5	16-APR-93	U-TOTAL	5.010	-	3.24 mg/kg
IFP-SS-02	111791	0 - .5	16-APR-93	U-238	1.440	-	1.27 pCi/g
IFP-SS-02	111791	0 - .5	16-APR-93	GROSS BETA	21.800	-	0 pCi/g
IFP-SS-02	111791	0 - .5	16-APR-93	PU-238	.081	J	0 pCi/g
IFP-SS-02	111791	0 - .5	16-APR-93	SR-90	.525	J	0 pCi/g
IFP-SS-03	111792	0 - .5	16-APR-93	GROSS BETA	11.900	-	0 pCi/g
IFP-SS-03	111792	0 - .5	16-APR-93	PU-238	.057	J	0 pCi/g
IFP-SS-03	111792	0 - .5	16-APR-93	NP-237	.030	N	0 pCi/g
IFP-SS-04	111793	0 - .5	16-APR-93	GROSS ALPHA	60.200	-	0 pCi/g
IFP-SS-04	111793	0 - .5	16-APR-93	U-TOTAL	19.700	-	3.24 mg/kg
IFP-SS-04	111793	0 - .5	16-APR-93	U-238	6.120	-	1.27 pCi/g
IFP-SS-04	111793	0 - .5	16-APR-93	U-235/236	.276	J	.181 pCi/g
IFP-SS-04	111793	0 - .5	16-APR-93	U-234	6.180	-	1.319 pCi/g
IFP-SS-04	111793	0 - .5	16-APR-93	SR-90	.854	J	0 pCi/g
IFP-SS-04	111793	0 - .5	16-APR-93	RA-228	1.200	-	1.17 pCi/g
IFP-SS-04	111793	0 - .5	16-APR-93	NP-237	.137	N	0 pCi/g
IFP-SS-04	111793	0 - .5	16-APR-93	GROSS BETA	36.300	-	0 pCi/g

TABLE E-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND	UNITS
<u>RADIONUCLIDES (Continued)</u>								
IFP-SS-05	111794	0 - .5	16-APR-93	GROSS ALPHA	25.900	-	0	pCi/g
IFP-SS-05	111794	0 - .5	16-APR-93	NP-237	.041	N	0	pCi/g
IFP-SS-05	111794	0 - .5	16-APR-93	GROSS BETA	36.300	-	0	pCi/g
IFP-SS-05	111794	0 - .5	16-APR-93	PU-238	.044	J	0	pCi/g
IFP-SS-05	111794	0 - .5	16-APR-93	PU-239/240	.021	J	0	pCi/g
IFP-SS-05	111794	0 - .5	16-APR-93	U-TOTAL	20.400	-	3.24	mg/kg
IFP-SS-05	111794	0 - .5	16-APR-93	U-238	7.560	-	1.27	pCi/g
IFP-SS-05	111794	0 - .5	16-APR-93	U-235/236	.335	-	.181	pCi/g
IFP-SS-05	111794	0 - .5	16-APR-93	U-234	7.690	-	1.319	pCi/g
IFP-SS-05	111794	0 - .5	16-APR-93	TH-230	2.200	-	2.112	pCi/g
IFP-SS-05	111794	0 - .5	16-APR-93	SR-90	.629	J	0	pCi/g
IFP-SS-06	111795	0 - .5	16-APR-93	GROSS ALPHA	39.200	-	0	pCi/g
IFP-SS-06	111795	0 - .5	16-APR-93	U-TOTAL	32.100	-	3.24	mg/kg
IFP-SS-06	111795	0 - .5	16-APR-93	U-238	11.200	-	1.27	pCi/g
IFP-SS-06	111795	0 - .5	16-APR-93	U-235/236	.602	-	.181	pCi/g
IFP-SS-06	111795	0 - .5	16-APR-93	U-234	10.600	-	1.319	pCi/g
IFP-SS-06	111795	0 - .5	16-APR-93	RA-228	1.480	-	1.17	pCi/g
IFP-SS-06	111795	0 - .5	16-APR-93	GROSS BETA	43.900	-	0	pCi/g
IFP-SS-07	111796	0 - .5	16-APR-93	GROSS ALPHA	28.200	-	0	pCi/g
IFP-SS-07	111796	0 - .5	16-APR-93	U-TOTAL	31.100	-	3.24	mg/kg
IFP-SS-07	111796	0 - .5	16-APR-93	U-238	10.400	-	1.27	pCi/g
IFP-SS-07	111796	0 - .5	16-APR-93	U-235/236	.433	J	.181	pCi/g
IFP-SS-07	111796	0 - .5	16-APR-93	U-234	10.100	-	1.319	pCi/g
IFP-SS-07	111796	0 - .5	16-APR-93	NP-237	.035	N	0	pCi/g
IFP-SS-07	111796	0 - .5	16-APR-93	SR-90	.770	J	0	pCi/g
IFP-SS-07	111796	0 - .5	16-APR-93	GROSS BETA	32.700	-	0	pCi/g
<u>VOLATILE ORGANICS</u>								
IFP-SS-01	111790	0 - .5	16-APR-93	Toluene	55.000	-	0	ug/kg
IFP-SS-02	111791	0 - .5	16-APR-93	Toluene	3.000	J	0	ug/kg
IFP-SS-03	111792	0 - .5	16-APR-93	Toluene	5.000	J	0	ug/kg
IFP-SS-04	111793	0 - .5	16-APR-93	Acetone	10.000	J	0	ug/kg
IFP-SS-05	111794	0 - .5	16-APR-93	Acetone	2.000	J	0	ug/kg
IFP-SS-07	111796	0 - .5	16-APR-93	2-Butanone	3.000	J	0	ug/kg
IFP-SS-07	111796	0 - .5	16-APR-93	Acetone	12.000	J	0	ug/kg
<u>SEMIVOLATILE ORGANICS</u>								
IFP-SS-07	111796	0 - .5	16-APR-93	2-Methylnaphthalene	160.000	J	0	ug/kg
IFP-SS-07	111796	0 - .5	16-APR-93	Dibenzo(a,h)anthracene	2200.000	-	0	ug/kg
IFP-SS-07	111796	0 - .5	16-APR-93	Fluorene	510.000	-	0	ug/kg
IFP-SS-07	111796	0 - .5	16-APR-93	Naphthalene	100.000	J	0	ug/kg
IFP-SS-07	111796	0 - .5	16-APR-93	Dibenzofuran	250.000	J	0	ug/kg
IFP-SS-07	111796	0 - .5	16-APR-93	Carbazole	510.000	-	0	ug/kg

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TABLE E-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL	RESULTS	QUAL	BACKGROUND UNITS
SEMIVOLATILE ORGANICS (Continued)								
IFP-SS-07	111796	0 - .5	16-APR-93	Acenaphthene	460.000	-		0 ug/kg
IFP-SS-07	111796	0 - .5	16-APR-93	Anthracene	1700.000	J		0 ug/kg
IFP-SS-07	111796	0 - .5	16-APR-93	Acenaphthylene	1800.000	J		0 ug/kg

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TABLE E-2B
INACTIVE FLYASH PILE
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND IN SUBSURFACE SOIL
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
METALS							
1708	067096	7.5 - 9	14-JUN-91	Barium	315.000	-	121.064 mg/kg
1708	067096	7.5 - 9	14-JUN-91	Beryllium	1.800	-	.62 mg/kg
1708	067096	7.5 - 9	14-JUN-91	Copper	27.900	-	20.23 mg/kg
1708	067096	7.5 - 9	14-JUN-91	Cyanide	.590	J	.17 mg/kg
1708	067096	7.5 - 9	14-JUN-91	Molybdenum	8.900	-	.27 mg/kg
1708	067096	7.5 - 9	14-JUN-91	Silver	5.900	-	0 mg/kg
1708	067096	7.5 - 9	14-JUN-91	Selenium	2.800	-	0 mg/kg
1708	067102	16.5 - 18	16-JUN-91	Barium	294.000	-	121.064 mg/kg
1708	067102	16.5 - 18	16-JUN-91	Beryllium	2.000	-	.62 mg/kg
1708	067102	16.5 - 18	16-JUN-91	Cyanide	1.200	J	.17 mg/kg
1708	067102	16.5 - 18	16-JUN-91	Molybdenum	9.400	-	.27 mg/kg
1708	067102	16.5 - 18	16-JUN-91	Silver	8.300	-	0 mg/kg
1708	067102	16.5 - 18	16-JUN-91	Selenium	2.900	-	0 mg/kg
1708	067102	16.5 - 18	16-JUN-91	Lead	67.100	J	15.78 mg/kg
1708	067102	16.5 - 18	16-JUN-91	Copper	29.500	-	20.23 mg/kg
1708	067102	16.5 - 18	16-JUN-91	Cadmium	1.300	-	.91 mg/kg
1708	067112	31.5 - 33	16-JUN-91	Molybdenum	9.200	-	.27 mg/kg
1709	067064	7.5 - 9	06-JUN-91	Arsenic	16.300	-	9.704 mg/kg
1709	067064	7.5 - 9	06-JUN-91	Barium	286.000	-	121.064 mg/kg
1709	067064	7.5 - 9	06-JUN-91	Copper	28.500	-	20.23 mg/kg
1709	067064	7.5 - 9	06-JUN-91	Cyanide	.270	-	.17 mg/kg
1709	067064	7.5 - 9	06-JUN-91	Selenium	.740	-	0 mg/kg
1709	067064	7.5 - 9	06-JUN-91	Molybdenum	3.500	-	.27 mg/kg
1709	067064	7.5 - 9	06-JUN-91	Beryllium	3.900	-	.62 mg/kg
1709	067071	13.5 - 15	06-JUN-91	Arsenic	74.800	-	9.704 mg/kg
1709	067071	13.5 - 15	06-JUN-91	Barium	252.000	-	121.064 mg/kg
1709	067071	13.5 - 15	06-JUN-91	Copper	28.800	-	20.23 mg/kg
1709	067071	13.5 - 15	06-JUN-91	Cyanide	.230	-	.17 mg/kg
1709	067071	13.5 - 15	06-JUN-91	Thallium	.800	J	.49 mg/kg
1709	067071	13.5 - 15	06-JUN-91	Selenium	4.100	-	0 mg/kg
1709	067071	13.5 - 15	06-JUN-91	Molybdenum	4.900	-	.27 mg/kg
1709	067071	13.5 - 15	06-JUN-91	Beryllium	4.300	-	.62 mg/kg
1710	067029	4.5 - 5	31-MAY-91	Arsenic	31.700	-	9.704 mg/kg
1710	067029	4.5 - 5	31-MAY-91	Beryllium	6.700	-	.62 mg/kg
1710	067029	4.5 - 5	31-MAY-91	Barium	637.000	-	121.064 mg/kg
1710	067029	4.5 - 5	31-MAY-91	Cyanide	.690	-	.17 mg/kg

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TABLE E-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
METALS (Continued)							
1710	067029	4.5 - 5	31-MAY-91	Sodium	294.000	-	227.947 mg/kg
1710	067029	4.5 - 5	31-MAY-91	Silver	2.800	J	0 mg/kg
1710	067029	4.5 - 5	31-MAY-91	Selenium	1.400	-	0 mg/kg
1710	067029	4.5 - 5	31-MAY-91	Molybdenum	4.300	-	.27 mg/kg
1710	067029	4.5 - 5	31-MAY-91	Copper	34.400	-	20.23 mg/kg
1710	067032	9 - 10.5	31-MAY-91	Arsenic	20.700	-	9.704 mg/kg
1710	067032	9 - 10.5	31-MAY-91	Barium	892.000	-	121.064 mg/kg
1710	067032	9 - 10.5	31-MAY-91	Cadmium	1.000	-	.91 mg/kg
1710	067032	9 - 10.5	31-MAY-91	Cyanide	.620	-	.17 mg/kg
1710	067032	9 - 10.5	31-MAY-91	Sodium	271.000	-	227.947 mg/kg
1710	067032	9 - 10.5	31-MAY-91	Silver	2.700	J	0 mg/kg
1710	067032	9 - 10.5	31-MAY-91	Selenium	3.100	J	0 mg/kg
1710	067032	9 - 10.5	31-MAY-91	Molybdenum	3.400	-	.27 mg/kg
1710	067032	9 - 10.5	31-MAY-91	Copper	26.600	-	20.23 mg/kg
1710	067032	9 - 10.5	31-MAY-91	Beryllium	2.400	-	.62 mg/kg
1710	067047	28.5 - 30	01-JUN-91	Antimony	15.000	J	0 mg/kg
1710	067047	28.5 - 30	01-JUN-91	Molybdenum	3.600	-	.27 mg/kg
1710	067047	28.5 - 30	01-JUN-91	Copper	21.300	-	20.23 mg/kg
1710	067047	28.5 - 30	01-JUN-91	Cyanide	.420	-	.17 mg/kg
1710	067047	28.5 - 30	01-JUN-91	Silver	4.300	J	0 mg/kg
1710	067047	28.5 - 30	01-JUN-91	Cadmium	4.100	-	.91 mg/kg
1711	067012	4.5 - 6	29-MAY-91	Antimony	8.800	J	0 mg/kg
1711	067012	4.5 - 6	29-MAY-91	Barium	360.000	-	121.064 mg/kg
1711	067012	4.5 - 6	29-MAY-91	Thallium	1.000	-	.49 mg/kg
1711	067012	4.5 - 6	29-MAY-91	Cyanide	.600	-	.17 mg/kg
1711	067012	4.5 - 6	29-MAY-91	Selenium	1.600	J	0 mg/kg
1711	067012	4.5 - 6	29-MAY-91	Molybdenum	3.200	-	.27 mg/kg
1711	067012	4.5 - 6	29-MAY-91	Beryllium	3.000	-	.62 mg/kg
1711	067012	4.5 - 6	29-MAY-91	Arsenic	28.000	J	9.704 mg/kg
1711	067015	9 - 10.5	29-MAY-91	Antimony	10.400	J	0 mg/kg
1711	067015	9 - 10.5	29-MAY-91	Cyanide	.530	-	.17 mg/kg
1711	067015	9 - 10.5	29-MAY-91	Thallium	1.000	-	.49 mg/kg
1711	067015	9 - 10.5	29-MAY-91	Selenium	2.700	-	0 mg/kg
1711	067015	9 - 10.5	29-MAY-91	Molybdenum	4.000	-	.27 mg/kg
1711	067015	9 - 10.5	29-MAY-91	Copper	24.100	-	20.23 mg/kg
1711	067015	9 - 10.5	29-MAY-91	Beryllium	2.500	-	.62 mg/kg
1711	067015	9 - 10.5	29-MAY-91	Arsenic	35.400	J	9.704 mg/kg
1711	067015	9 - 10.5	29-MAY-91	Barium	373.000	-	121.064 mg/kg
1711	067020	18 - 19.5	29-MAY-91	Antimony	16.300	J	0 mg/kg
1711	067020	18 - 19.5	29-MAY-91	Beryllium	.770	-	.62 mg/kg
1711	067020	18 - 19.5	29-MAY-91	Cadmium	2.000	-	.91 mg/kg
1711	067020	18 - 19.5	29-MAY-91	Copper	44.900	-	20.23 mg/kg
1711	067020	18 - 19.5	29-MAY-91	Cyanide	.180	-	.17 mg/kg

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TABLE E-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
METALS (Continued)							
1711	067020	18 - 19.5	29-MAY-91	Zinc	102.000	-	73.158 mg/kg
1711	067020	18 - 19.5	29-MAY-91	Silver	4.400	-	0 mg/kg
1711	067020	18 - 19.5	29-MAY-91	Selenium	.730	J	0 mg/kg
1711	067020	18 - 19.5	29-MAY-91	Molybdenum	3.300	-	.27 mg/kg
1711	067020	18 - 19.5	29-MAY-91	Mercury	.440	-	.29 mg/kg
1711	067020	18 - 19.5	29-MAY-91	Lead	57.000	-	15.78 mg/kg
1791	067122	28.5 - 30	25-JUN-91	Molybdenum	8.100	-	.27 mg/kg
1791	067122	28.5 - 30	25-JUN-91	Silver	2.800	J	0 mg/kg
RADIONUCLIDES							
1016	007233	1.5 - 3	15-OCT-87	U-234	10.700	J	1.034 pCi/g
1016	007233	1.5 - 3	15-OCT-87	U-238	11.400	J	1.122 pCi/g
1047	007301	9 - 10.5	16-OCT-87	TC-99	1.500	-	0 pCi/g
1708	067095	6 - 7.5	14-JUN-91	RA-226	3.070	J	1.47 pCi/g
1708	067095	6 - 7.5	14-JUN-91	TH-232	2.420	J	1.269 pCi/g
1708	067095	6 - 7.5	14-JUN-91	U-TOTAL	15.600	J	2.54 mg/kg
1708	067095	6 - 7.5	14-JUN-91	U-238	3.940	J	1.122 pCi/g
1708	067095	6 - 7.5	14-JUN-91	U-234	3.650	J	1.034 pCi/g
1708	067095	6 - 7.5	14-JUN-91	TH-TOTAL	21.800	J	9.47 mg/kg
1708	067095	6 - 7.5	14-JUN-91	RA-228	3.130	J	1.325 pCi/g
1708	067095	6 - 7.5	14-JUN-91	SR-90	1.230	J	.56 pCi/g
1708	067095	6 - 7.5	14-JUN-91	TH-228	3.140	J	1.341 pCi/g
1708	067095	6 - 7.5	14-JUN-91	TH-230	2.980	J	1.897 pCi/g
1708	067101	15 - 16.5	16-JUN-91	RA-226	2.660	J	1.47 pCi/g
1708	067101	15 - 16.5	16-JUN-91	U-TOTAL	11.100	J	2.54 mg/kg
1708	067101	15 - 16.5	16-JUN-91	U-238	2.970	J	1.122 pCi/g
1708	067101	15 - 16.5	16-JUN-91	U-234	2.880	J	1.034 pCi/g
1708	067101	15 - 16.5	16-JUN-91	TH-TOTAL	16.300	J	9.47 mg/kg
1708	067101	15 - 16.5	16-JUN-91	TH-232	1.810	J	1.269 pCi/g
1708	067101	15 - 16.5	16-JUN-91	RA-228	2.460	J	1.325 pCi/g
1708	067101	15 - 16.5	16-JUN-91	SR-90	1.250	J	.56 pCi/g
1708	067101	15 - 16.5	16-JUN-91	TH-228	2.700	J	1.341 pCi/g
1708	067101	15 - 16.5	16-JUN-91	TH-230	2.730	J	1.897 pCi/g
1708	067111	30 - 31.5	16-JUN-91	CS-137	.200	J	0 pCi/g
1708	067111	30 - 31.5	16-JUN-91	RU-106	1.000	J	0 pCi/g
1708	067111	30 - 31.5	16-JUN-91	NP-237	.600	J	0 pCi/g
1708	067111	30 - 31.5	16-JUN-91	U-TOTAL	68.200	J	2.54 mg/kg
1708	067111	30 - 31.5	16-JUN-91	U-238	21.940	J	1.122 pCi/g
1708	067111	30 - 31.5	16-JUN-91	U-235/236	.687	J	.142 pCi/g
1708	067111	30 - 31.5	16-JUN-91	U-234	20.640	J	1.034 pCi/g
1708	067111	30 - 31.5	16-JUN-91	TH-TOTAL	10.600	J	9.47 mg/kg
1708	067111	30 - 31.5	16-JUN-91	TH-230	2.930	J	1.897 pCi/g
1708	067111	30 - 31.5	16-JUN-91	TH-228	1.590	J	1.341 pCi/g

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TABLE E-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)							
1708	067111	30 - 31.5	16-JUN-91	RA-226	1.720 J	1.47	pCi/g
1708	067111	30 - 31.5	16-JUN-91	PU-238	.600 J	0	pCi/g
1709	067062	4.5 - 6	04-JUN-91	RA-224	2.290 -	1.019	pCi/g
1709	067062	4.5 - 6	04-JUN-91	TH-232	2.020 J	1.269	pCi/g
1709	067062	4.5 - 6	04-JUN-91	U-TOTAL	67.000 -	2.54	mg/kg
1709	067062	4.5 - 6	04-JUN-91	U-238	11.000 J	1.122	pCi/g
1709	067062	4.5 - 6	04-JUN-91	U-238	5.600 -	1.122	pCi/L
1709	067062	4.5 - 6	04-JUN-91	U-235/236	.960 J	.142	pCi/g
1709	067062	4.5 - 6	04-JUN-91	U-234	4.400 -	1.034	pCi/g
1709	067062	4.5 - 6	04-JUN-91	TH-TOTAL	18.300 J	9.47	mg/kg
1709	067062	4.5 - 6	04-JUN-91	TH-230	3.740 J	1.897	pCi/g
1709	067062	4.5 - 6	04-JUN-91	TH-228	2.080 J	1.341	pCi/g
1709	067062	4.5 - 6	04-JUN-91	RA-228	1.660 -	1.325	pCi/g
1709	067062	4.5 - 6	04-JUN-91	RA-226	1.960 -	1.47	pCi/g
1709	067072	15 - 16.5	06-JUN-91	NP-237	.780 J	0	pCi/g
1709	067072	15 - 16.5	06-JUN-91	PB-210	1.250 -	.857	pCi/g
1709	067072	15 - 16.5	06-JUN-91	U-TOTAL	14.500 J	2.54	mg/kg
1709	067072	15 - 16.5	06-JUN-91	U-238	5.090 -	1.122	pCi/g
1709	067072	15 - 16.5	06-JUN-91	U-238	3.430 J	1.122	pCi/g
1709	067072	15 - 16.5	06-JUN-91	U-234	4.630 -	1.034	pCi/g
1709	067072	15 - 16.5	06-JUN-91	TH-TOTAL	23.900 J	9.47	mg/kg
1709	067072	15 - 16.5	06-JUN-91	TH-232	2.650 J	1.269	pCi/g
1709	067072	15 - 16.5	06-JUN-91	TH-230	4.500 J	1.897	pCi/g
1709	067072	15 - 16.5	06-JUN-91	TH-228	2.780 J	1.341	pCi/g
1709	067072	15 - 16.5	06-JUN-91	RA-228	2.200 -	1.325	pCi/g
1709	067072	15 - 16.5	06-JUN-91	RA-226	2.790 -	1.47	pCi/g
1709	067072	15 - 16.5	06-JUN-91	RA-224	2.960 -	1.019	pCi/g
1709	067081	28.5 - 30	11-JUN-91	PB-210	1.170 -	.857	pCi/g
1709	067081	28.5 - 30	11-JUN-91	U-TOTAL	14.400 J	2.54	mg/kg
1709	067081	28.5 - 30	11-JUN-91	U-238	3.800 -	1.122	pCi/g
1709	067081	28.5 - 30	11-JUN-91	U-238	3.360 J	1.122	pCi/g
1709	067081	28.5 - 30	11-JUN-91	U-234	3.520 -	1.034	pCi/g
1709	067081	28.5 - 30	11-JUN-91	TH-TOTAL	20.000 -	9.47	mg/kg
1709	067081	28.5 - 30	11-JUN-91	TH-232	2.210 -	1.269	pCi/g
1709	067081	28.5 - 30	11-JUN-91	TH-230	3.070 -	1.897	pCi/g
1709	067081	28.5 - 30	11-JUN-91	TH-228	2.510 -	1.341	pCi/g
1709	067081	28.5 - 30	11-JUN-91	RA-228	2.190 -	1.325	pCi/g
1709	067081	28.5 - 30	11-JUN-91	RA-226	2.130 -	1.47	pCi/g
1709	067081	28.5 - 30	11-JUN-91	RA-224	3.050 -	1.019	pCi/g
1710	067028	3 - 4.5	31-MAY-91	PB-210	1.180 -	.857	pCi/g
1710	067028	3 - 4.5	31-MAY-91	U-TOTAL	38.200 J	2.54	mg/kg
1710	067028	3 - 4.5	31-MAY-91	U-238	11.800 -	1.122	pCi/g
1710	067028	3 - 4.5	31-MAY-91	U-238	9.570 J	1.122	pCi/g

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TABLE E-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND UNITS
RADIOMUCLIDES (Continued)							
1710	067028	3 - 4.5	31-MAY-91	U-235/236	.880 J	.142 pCi/g	
1710	067028	3 - 4.5	31-MAY-91	U-234	11.400 J	1.034 pCi/g	
1710	067028	3 - 4.5	31-MAY-91	TH-TOTAL	22.200 J	9.47 mg/kg	
1710	067028	3 - 4.5	31-MAY-91	TH-232	2.470 J	1.269 pCi/g	
1710	067028	3 - 4.5	31-MAY-91	TH-230	3.310 J	1.897 pCi/g	
1710	067028	3 - 4.5	31-MAY-91	TH-228	2.640 J	1.341 pCi/g	
1710	067028	3 - 4.5	31-MAY-91	RA-228	2.460 -	1.325 pCi/g	
1710	067028	3 - 4.5	31-MAY-91	RA-226	2.350 -	1.47 pCi/g	
1710	067028	3 - 4.5	31-MAY-91	RA-224	3.050 -	1.019 pCi/g	
1710	067043	22.5 - 23	01-JUN-91	PB-210	2.750 J	.857 pCi/g	
1710	067043	22.5 - 23	01-JUN-91	U-TOTAL	128.000 J	2.54 mg/kg	
1710	067043	22.5 - 23	01-JUN-91	U-235/236	3.290 J	.142 pCi/g	
1710	067043	22.5 - 23	01-JUN-91	U-234	51.400 J	1.034 pCi/g	
1710	067043	22.5 - 23	01-JUN-91	TH-TOTAL	36.100 -	9.47 mg/kg	
1710	067043	22.5 - 23	01-JUN-91	TH-232	4.000 -	1.269 pCi/g	
1710	067043	22.5 - 23	01-JUN-91	TH-230	12.800 J	1.897 pCi/g	
1710	067043	22.5 - 23	01-JUN-91	TH-228	4.100 J	1.341 pCi/g	
1710	067043	22.5 - 23	01-JUN-91	RA-228	2.880 J	1.325 pCi/g	
1710	067043	22.5 - 23	01-JUN-91	RA-226	6.360 J	1.47 pCi/g	
1710	067043	22.5 - 23	01-JUN-91	RA-224	3.110 J	1.019 pCi/g	
1710	067046	27 - 28.5	01-JUN-91	NP-237	.600 J	0 pCi/g	
1710	067046	27 - 28.5	01-JUN-91	U-TOTAL	660.000 -	2.54 mg/kg	
1710	067046	27 - 28.5	01-JUN-91	U-238	180.000 -	1.122 pCi/g	
1710	067046	27 - 28.5	01-JUN-91	U-238	191.000 -	1.122 pCi/g	
1710	067046	27 - 28.5	01-JUN-91	U-235/236	18.500 -	.142 pCi/g	
1710	067046	27 - 28.5	01-JUN-91	U-234	187.000 -	1.034 pCi/g	
1710	067046	27 - 28.5	01-JUN-91	TH-TOTAL	29.600 -	9.47 mg/kg	
1710	067046	27 - 28.5	01-JUN-91	TH-232	3.280 -	1.269 pCi/g	
1710	067046	27 - 28.5	01-JUN-91	TH-230	54.600 -	1.897 pCi/g	
1710	067046	27 - 28.5	01-JUN-91	TH-228	3.030 J	1.341 pCi/g	
1710	067046	27 - 28.5	01-JUN-91	TC-99	.900 J	0 pCi/g	
1710	067046	27 - 28.5	01-JUN-91	SR-90	1.740 -	.56 pCi/g	
1710	067046	27 - 28.5	01-JUN-91	RA-228	3.120 -	1.325 pCi/g	
1710	067046	27 - 28.5	01-JUN-91	RA-226	36.000 -	1.47 pCi/g	
1710	067046	27 - 28.5	01-JUN-91	RA-224	3.490 -	1.019 pCi/g	
1710	067046	27 - 28.5	01-JUN-91	PB-210	16.800 -	.857 pCi/g	
1711	067010	1.5 - 3	23-MAY-91	PB-210	1.240 -	.857 pCi/g	
1711	067010	1.5 - 3	23-MAY-91	RA-228	2.160 -	1.325 pCi/g	
1711	067010	1.5 - 3	23-MAY-91	RA-226	2.740 -	1.47 pCi/g	
1711	067010	1.5 - 3	23-MAY-91	U-235/236	5.340 -	.142 pCi/g	
1711	067010	1.5 - 3	23-MAY-91	U-238	40.100 -	1.122 pCi/g	
1711	067010	1.5 - 3	23-MAY-91	U-TOTAL	123.000 -	2.54 mg/kg	
1711	067010	1.5 - 3	23-MAY-91	U-238	34.100 -	1.122 pCi/g	

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TABLE E-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)							
1711	067010	1.5 - 3	23-MAY-91	U-234	42.000	-	1.034 pCi/g
1711	067010	1.5 - 3	23-MAY-91	RA-224	2.940	-	1.019 pCi/g
1711	067014	7.5 - 9	29-MAY-91	PB-210	1.870	-	.857 pCi/g
1711	067014	7.5 - 9	29-MAY-91	RA-226	4.110	-	1.47 pCi/g
1711	067014	7.5 - 9	29-MAY-91	RA-224	3.220	-	1.019 pCi/g
1711	067014	7.5 - 9	29-MAY-91	U-TOTAL	18.200	J	2.54 mg/kg
1711	067014	7.5 - 9	29-MAY-91	U-238	5.670	-	1.122 pCi/g
1711	067014	7.5 - 9	29-MAY-91	U-238	6.070	J	1.122 pCi/g
1711	067014	7.5 - 9	29-MAY-91	U-235/236	.870	-	.142 pCi/g
1711	067014	7.5 - 9	29-MAY-91	U-234	5.930	-	1.034 pCi/g
1711	067014	7.5 - 9	29-MAY-91	TH-TOTAL	28.000	-	9.47 mg/kg
1711	067014	7.5 - 9	29-MAY-91	TH-232	3.100	-	1.269 pCi/g
1711	067014	7.5 - 9	29-MAY-91	TH-230	6.090	-	1.897 pCi/g
1711	067014	7.5 - 9	29-MAY-91	TH-228	3.340	-	1.341 pCi/g
1711	067014	7.5 - 9	29-MAY-91	RA-228	2.670	-	1.325 pCi/g
1711	067019	13.5 - 15	29-MAY-91	RA-224	1.710	-	1.019 pCi/g
1711	067019	13.5 - 15	29-MAY-91	U-TOTAL	18.000	J	2.54 mg/kg
1711	067019	13.5 - 15	29-MAY-91	U-238	3.520	J	1.122 pCi/g
1711	067019	13.5 - 15	29-MAY-91	U-238	4.540	-	1.122 pCi/g
1711	067019	13.5 - 15	29-MAY-91	U-234	4.950	-	1.034 pCi/g
1711	067019	13.5 - 15	29-MAY-91	TH-TOTAL	9.890	J	9.47 mg/kg
1711	067019	13.5 - 15	29-MAY-91	RA-226	1.480	-	1.47 pCi/g
1711	067019	13.5 - 15	29-MAY-91	TH-230	2.140	J	1.897 pCi/g
1711	067019	13.5 - 15	29-MAY-91	TH-228	1.560	J	1.341 pCi/g
1791	067121	27 - 28.5	25-JUN-91	U-TOTAL	873.000	J	2.54 mg/kg
1849	067618	28.5 - 30	22-FEB-92	RA-224	1.020	J	1.019 pCi/g
1849	067618	28.5 - 30	22-FEB-92	SR-90	.770	-	.56 pCi/g
1849	067618	28.5 - 30	22-FEB-92	TH-228	1.440	-	1.341 pCi/g
1849	067618	28.5 - 30	22-FEB-92	U-TOTAL	6.930	J	2.54 mg/kg
1849	067618	28.5 - 30	22-FEB-92	U-238	1.760	-	1.122 pCi/g
1849	067618	28.5 - 30	22-FEB-92	U-238	1.470	J	1.122 pCi/g
1849	067618	28.5 - 30	22-FEB-92	U-234	1.730	-	1.034 pCi/g
2047	008960	25 - 26.5	20-DEC-88	SR-90	.700	-	.56 pCi/g
2401	038486	0 - 65	06-MAR-92	U-TOTAL	4.640	-	2.54 mg/kg
4016	010450	95 - 96.5	20-DEC-88	SR-90	4.000	-	.56 pCi/g
4016	010454	115 - 116.5	21-DEC-88	SR-90	.900	-	.56 pCi/g
VOLATILE ORGANICS							
1708	067096	7.5 - 9	14-JUN-91	Toluene	3.000	J	0 ug/kg
1708	067102	16.5 - 18	16-JUN-91	1,1,1-Trichloroethane	4.000	J	0 ug/kg
1708	067112	31.5 - 33	16-JUN-91	Acetone	190.000	J	0 ug/kg
1709	067064	7.5 - 9	06-JUN-91	1,1,1-Trichloroethane	150.000	J	0 ug/kg
1709	067064	7.5 - 9	06-JUN-91	Acetone	13.000	J	0 ug/kg

TABLE E-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
VOLATILE ORGANICS (Continued)							
1709	067071	13.5 - 15	06-JUN-91	1,1,1-Trichloroethane	50.000	J	0 ug/kg
1709	067071	13.5 - 15	06-JUN-91	Vinyl Acetate	2.000	J	0 ug/kg
1709	067071	13.5 - 15	06-JUN-91	Acetone	10.000	J	0 ug/kg
1710	067029	4.5 - 5	31-MAY-91	4-Methyl-2-pentanone	2.000	J	0 ug/kg
1710	067032	9 - 10.5	31-MAY-91	1,1,1-Trichloroethane	74.000	J	0 ug/kg
1710	067032	9 - 10.5	31-MAY-91	Acetone	75.000	J	0 ug/kg
1710	067047	28.5 - 30	01-JUN-91	4-Methyl-2-pentanone	1.000	J	0 ug/kg
1711	067012	4.5 - 6	29-MAY-91	1,1,1-Trichloroethane	51.000	J	0 ug/kg
1711	067015	9 - 10.5	29-MAY-91	1,1,1-Trichloroethane	35.000	J	0 ug/kg
1711	067015	9 - 10.5	29-MAY-91	Toluene	3.000	J	0 ug/kg
1711	067015	9 - 10.5	29-MAY-91	Carbon disulfide	20.000	J	0 ug/kg
1711	067020	18 - 19.5	29-MAY-91	2-Hexanone	3.000	J	0 ug/kg
1711	067020	18 - 19.5	29-MAY-91	Acetone	68.000	J	0 ug/kg
1849	067604	6 - 7.5	22-FEB-92	1,1,1-Trichloroethane	18.000	J	0 ug/kg
1849	067604	6 - 7.5	22-FEB-92	Toluene	20.000	J	0 ug/kg
1849	067609	13.5 - 15	22-FEB-92	1,1,1-Trichloroethane	170.000	J	0 ug/kg
1849	067609	13.5 - 15	22-FEB-92	Toluene	13.000	J	0 ug/kg
1850	067627	6 - 7.5	23-FEB-92	Styrene	2.000	J	0 ug/kg
1850	067627	6 - 7.5	23-FEB-92	Toluene	38.000	J	0 ug/kg
1850	067632	13.5 - 15	23-FEB-92	1,1,1-Trichloroethane	37.000	J	0 ug/kg
1850	067632	13.5 - 15	23-FEB-92	Toluene	110.000	J	0 ug/kg
SEMOVOLATILE ORGANICS							
1708	067096	7.5 - 9	14-JUN-91	Benzo(a)anthracene	110.000	J	0 ug/kg
1708	067096	7.5 - 9	14-JUN-91	Chrysene	150.000	J	0 ug/kg
1708	067096	7.5 - 9	14-JUN-91	Pyrene	120.000	J	0 ug/kg
1708	067096	7.5 - 9	14-JUN-91	Fluoranthene	94.000	J	0 ug/kg
1708	067096	7.5 - 9	14-JUN-91	Benzo(b)fluoranthene	360.000	J	0 ug/kg
1708	067096	7.5 - 9	14-JUN-91	Benzo(a)pyrene	130.000	J	0 ug/kg
1708	067096	7.5 - 9	14-JUN-91	Benzo(k)fluoranthene	260.000	J	0 ug/kg
1708	067102	16.5 - 18	16-JUN-91	Benzoic acid	97.000	J	0 ug/kg
1710	067047	28.5 - 30	01-JUN-91	bis(2-Ethylhexyl) phthalate	620.000	-	0 ug/kg
1711	067020	18 - 19.5	29-MAY-91	Benzoic acid	150.000	J	0 ug/kg
1849	067604	6 - 7.5	22-FEB-92	2-Methylnaphthalene	50.000	J	0 ug/kg
1849	067609	13.5 - 15	22-FEB-92	2-Methylnaphthalene	79.000	J	0 ug/kg
1849	067609	13.5 - 15	22-FEB-92	Di-n-butyl phthalate	46.000	J	0 ug/kg
1849	067609	13.5 - 15	22-FEB-92	Naphthalene	53.000	J	0 ug/kg
1850	067627	6 - 7.5	23-FEB-92	2-Methylnaphthalene	89.000	J	0 ug/kg
1850	067627	6 - 7.5	23-FEB-92	Naphthalene	53.000	J	0 ug/kg
1850	067627	6 - 7.5	23-FEB-92	Phenanthrene	49.000	J	0 ug/kg
1850	067627	6 - 7.5	23-FEB-92	Anthracene	49.000	J	0 ug/kg
1850	067632	13.5 - 15	23-FEB-92	2-Methylnaphthalene	66.000	J	0 ug/kg
1850	067632	13.5 - 15	23-FEB-92	Phenanthrene	41.000	J	0 ug/kg

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FEMP-OU02-6 FINAL
January 21, 1995

TABLE E-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	VAL QUAL	BACKGROUND	UNITS
PESTICIDES/PCBs								
1710	067047	28.5 - 30	01-JUN-91	Aroclor-1260	390.000	-	0	ug/kg
1711	067020	18 - 19.5	29-MAY-91	Aroclor-1254	210.000	J	0	ug/kg
GENERAL CHEMISTRY								
1849	067604	6 - 7.5	22-FEB-92	Total Organic Carbon	192011.000	-	0	mg/kg
1849	067609	13.5 - 15	22-FEB-92	Total Organic Carbon	186725.000	-	0	mg/kg
1849	067618	28.5 - 30	22-FEB-92	Total Organic Carbon	11500.000	-	0	mg/kg
1850	067627	6 - 7.5	23-FEB-92	Total Organic Carbon	173349.000	-	0	mg/kg
1850	067632	13.5 - 15	23-FEB-92	Total Organic Carbon	56753.000	-	0	mg/kg
1850	067633	15 - 16.5	23-FEB-92	Total Organic Carbon	7840.000	-	0	mg/kg

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000032

TABLE E-2C
INACTIVE FLYASH PILE
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND IN SUBSURFACE SOIL
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND	UNITS
METALS								
11006	113492	22.5 - 24	26-APR-93	Barium	132.000	-	121.064	mg/kg
11006	113492	22.5 - 24	26-APR-93	Chromium	34.800	J	20.953	mg/kg
11006	113492	22.5 - 24	26-APR-93	Copper	249.000	J	20.23	mg/kg
11006	113492	22.5 - 24	26-APR-93	Molybdenum	8.700	-	.27	mg/kg
11006	113492	22.5 - 24	26-APR-93	Mercury	.440	-	.29	mg/kg
11006	113492	22.5 - 24	26-APR-93	Lead	96.600	J	15.78	mg/kg
11006	113492	22.5 - 24	26-APR-93	Nickel	82.300	J	34.747	mg/kg
11006	113492	22.5 - 24	26-APR-93	Silver	8.100	-	0	mg/kg
11006	113492	22.5 - 24	26-APR-93	Zinc	383.000	J	73.158	mg/kg
11006	113492	22.5 - 24	26-APR-93	Sodium	486.000	-	227.947	mg/kg
11006	113492	22.5 - 24	26-APR-93	Potassium	2900.000	-	2007.519	mg/kg
11051	116441	22 - 24	27-MAY-93	Arsenic	49.700	-	9.704	mg/kg
11051	116441	22 - 24	27-MAY-93	Beryllium	1.100	-	.62	mg/kg
11051	116441	22 - 24	27-MAY-93	Chromium	32.100	-	20.953	mg/kg
11051	116441	22 - 24	27-MAY-93	Barium	220.000	-	121.064	mg/kg
11051	116441	22 - 24	27-MAY-93	Cobalt	18.200	-	15.929	mg/kg
11051	116441	22 - 24	27-MAY-93	Copper	258.000	-	20.23	mg/kg
11051	116441	22 - 24	27-MAY-93	Zinc	372.000	-	73.158	mg/kg
11051	116441	22 - 24	27-MAY-93	Sodium	663.000	-	227.947	mg/kg
11051	116441	22 - 24	27-MAY-93	Silver	9.400	-	0	mg/kg
11051	116441	22 - 24	27-MAY-93	Silicon	1250.000	J	1069.496	mg/kg
11051	116441	22 - 24	27-MAY-93	Selenium	.980	J	0	mg/kg
11051	116441	22 - 24	27-MAY-93	Potassium	2060.000	-	2007.519	mg/kg
11051	116441	22 - 24	27-MAY-93	Nickel	65.100	-	34.747	mg/kg
11051	116441	22 - 24	27-MAY-93	Molybdenum	9.200	-	.27	mg/kg
11051	116441	22 - 24	27-MAY-93	Mercury	.510	J	.29	mg/kg
11051	116441	22 - 24	27-MAY-93	Lead	400.000	-	15.78	mg/kg
11052	116427	19 - 21	25-MAY-93	Antimony	2.100	J	0	mg/kg
11052	116427	19 - 21	25-MAY-93	Chromium	22.000	-	20.953	mg/kg
11052	116427	19 - 21	25-MAY-93	Beryllium	1.600	-	.62	mg/kg
11052	116427	19 - 21	25-MAY-93	Potassium	2050.000	-	2007.519	mg/kg
11052	116427	19 - 21	25-MAY-93	Nickel	54.400	-	34.747	mg/kg
11052	116427	19 - 21	25-MAY-93	Zinc	324.000	-	73.158	mg/kg
11052	116427	19 - 21	25-MAY-93	Vanadium	41.300	-	38.088	mg/kg
11052	116427	19 - 21	25-MAY-93	Silver	7.900	-	0	mg/kg
11052	116427	19 - 21	25-MAY-93	Silicon	1090.000	-	1069.496	mg/kg

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TABLE E-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
METALS (Continued)							
11052	116427	19 - 21	25-MAY-93	Selenium	1.800 -		0 mg/kg
11052	116427	19 - 21	25-MAY-93	Molybdenum	7.400 -		.27 mg/kg
11052	116427	19 - 21	25-MAY-93	Mercury	.460 -		.29 mg/kg
11052	116427	19 - 21	25-MAY-93	Lead	193.000 -		15.78 mg/kg
11052	116427	19 - 21	25-MAY-93	Copper	92.300 -		20.23 mg/kg
11052	116427	19 - 21	25-MAY-93	Barium	222.000 -		121.064 mg/kg
11052	116427	19 - 21	25-MAY-93	Arsenic	35.500 -		9.704 mg/kg
1994	116264	2 - 3.5	12-MAY-93	Arsenic	12.100 -		9.704 mg/kg
1994	116264	2 - 3.5	12-MAY-93	Cyanide	.840 -		.17 mg/kg
1994	116264	2 - 3.5	12-MAY-93	Selenium	11.100 -		0 mg/kg
1994	116264	2 - 3.5	12-MAY-93	Molybdenum	6.900 -		.27 mg/kg
1994	116264	2 - 3.5	12-MAY-93	Copper	31.500 -		20.23 mg/kg
1994	116264	2 - 3.5	12-MAY-93	Beryllium	1.400 -		.62 mg/kg
1994	116264	2 - 3.5	12-MAY-93	Barium	228.000 -		121.064 mg/kg
1994	116283	14 - 15.5	12-MAY-93	Antimony	5.500 J		0 mg/kg
1994	116283	14 - 15.5	12-MAY-93	Arsenic	25.100 -		9.704 mg/kg
1994	116283	14 - 15.5	12-MAY-93	Copper	35.700 -		20.23 mg/kg
1994	116283	14 - 15.5	12-MAY-93	Cyanide	.830 -		.17 mg/kg
1994	116283	14 - 15.5	12-MAY-93	Beryllium	1.800 -		.62 mg/kg
1994	116283	14 - 15.5	12-MAY-93	Sodium	334.000 -		227.947 mg/kg
1994	116283	14 - 15.5	12-MAY-93	Selenium	5.100 -		0 mg/kg
1994	116283	14 - 15.5	12-MAY-93	Barium	612.000 -		121.064 mg/kg
1994	116301	26 - 27.5	13-MAY-93	Molybdenum	5.000 -		.27 mg/kg
1994	116301	26 - 27.5	13-MAY-93	Silver	4.700 -		0 mg/kg
1994	116312	36 - 37.5	13-MAY-93	Magnesium	55900.000 -		43052.339 mg/kg
1994	116312	36 - 37.5	13-MAY-93	Silver	2.200 J		0 mg/kg
1994	116312	36 - 37.5	13-MAY-93	Molybdenum	2.900 J		.27 mg/kg
1995	116080	2 - 3.5	01-MAY-93	Beryllium	1.600 -		.62 mg/kg
1995	116080	2 - 3.5	01-MAY-93	Molybdenum	.720 -		.27 mg/kg
1995	116090	8 - 9	01-MAY-93	Arsenic	81.800 J		9.704 mg/kg
1995	116090	8 - 9	01-MAY-93	Barium	357.000 -		121.064 mg/kg
1995	116090	8 - 9	01-MAY-93	Cyanide	.250 -		.17 mg/kg
1995	116090	8 - 9	01-MAY-93	Vanadium	53.200 J		38.088 mg/kg
1995	116090	8 - 9	01-MAY-93	Thallium	2.100 -		.49 mg/kg
1995	116090	8 - 9	01-MAY-93	Sodium	497.000 J		227.947 mg/kg
1995	116090	8 - 9	01-MAY-93	Selenium	4.100 J		0 mg/kg
1995	116090	8 - 9	01-MAY-93	Molybdenum	8.000 -		.27 mg/kg
1995	116090	8 - 9	01-MAY-93	Copper	41.200 -		20.23 mg/kg
1995	116090	8 - 9	01-MAY-93	Beryllium	8.700 -		.62 mg/kg
1995	116172	30 - 31.5	02-MAY-93	Beryllium	1.400 -		.62 mg/kg
1995	116172	30 - 31.5	02-MAY-93	Copper	22.600 -		20.23 mg/kg
1995	116172	30 - 31.5	02-MAY-93	Cadmium	1.100 -		.91 mg/kg
1995	116172	30 - 31.5	02-MAY-93	Lead	25.900 J		15.78 mg/kg

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TABLE E-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
METALS (Continued)							
1995	116172	30 - 31.5	02-MAY-93	Molybdenum	1.400 -	.27	mg/kg
1995	116172	30 - 31.5	02-MAY-93	Silver	.490 -	0	mg/kg
1995	116172	30 - 31.5	02-MAY-93	Silicon	1080.000 -	1069.496	mg/kg
1995	116172	30 - 31.5	02-MAY-93	Manganese	1200.000 -	1045.407	mg/kg
1996	112077	8 - 9.5	29-APR-93	Arsenic	14.500 J	9.704	mg/kg
1996	112077	8 - 9.5	29-APR-93	Barium	639.000 J	121.064	mg/kg
1996	112077	8 - 9.5	29-APR-93	Cyanide	.490 J	.17	mg/kg
1996	112077	8 - 9.5	29-APR-93	Thallium	.570 -	.49	mg/kg
1996	112077	8 - 9.5	29-APR-93	Sodium	297.000 -	227.947	mg/kg
1996	112077	8 - 9.5	29-APR-93	Selenium	2.300 J	0	mg/kg
1996	112077	8 - 9.5	29-APR-93	Beryllium	3.300 -	.62	mg/kg
1996	112077	8 - 9.5	29-APR-93	Copper	39.600 -	20.23	mg/kg
1996	112084	14 - 15	29-APR-93	Arsenic	26.000 J	9.704	mg/kg
1996	112084	14 - 15	29-APR-93	Barium	727.000 J	121.064	mg/kg
1996	112084	14 - 15	29-APR-93	Cyanide	.710 J	.17	mg/kg
1996	112084	14 - 15	29-APR-93	Thallium	.730 -	.49	mg/kg
1996	112084	14 - 15	29-APR-93	Sodium	382.000 -	227.947	mg/kg
1996	112084	14 - 15	29-APR-93	Selenium	1.900 J	0	mg/kg
1996	112084	14 - 15	29-APR-93	Copper	34.300 -	20.23	mg/kg
1996	112084	14 - 15	29-APR-93	Beryllium	4.200 -	.62	mg/kg
1996	116070	20 - 21.5	29-APR-93	Beryllium	.930 -	.62	mg/kg
1996	116070	20 - 21.5	29-APR-93	Molybdenum	1.400 -	.27	mg/kg
1997	116177	- 1.5	05-MAY-93	Beryllium	.890 -	.62	mg/kg
1997	116177	- 1.5	05-MAY-93	Copper	21.400 J	20.23	mg/kg
1997	116177	- 1.5	05-MAY-93	Lead	16.500 J	15.78	mg/kg
1997	116192	10 - 11.5	05-MAY-93	Arsenic	65.700 -	9.704	mg/kg
1997	116192	10 - 11.5	05-MAY-93	Cyanide	.350 -	.17	mg/kg
1997	116192	10 - 11.5	05-MAY-93	Thallium	.880 -	.49	mg/kg
1997	116192	10 - 11.5	05-MAY-93	Sodium	496.000 -	227.947	mg/kg
1997	116192	10 - 11.5	05-MAY-93	Selenium	2.900 -	0	mg/kg
1997	116192	10 - 11.5	05-MAY-93	Mercury	1.300 -	.29	mg/kg
1997	116192	10 - 11.5	05-MAY-93	Barium	1080.000 J	121.064	mg/kg
1997	116192	10 - 11.5	05-MAY-93	Beryllium	5.400 -	.62	mg/kg
1997	116192	10 - 11.5	05-MAY-93	Copper	38.600 J	20.23	mg/kg
1997	116252	34 - 35.5	07-MAY-93	Beryllium	.840 -	.62	mg/kg
1997	116252	34 - 35.5	07-MAY-93	Cadmium	1.200 -	.91	mg/kg
1997	116252	34 - 35.5	07-MAY-93	Cyanide	.250 J	.17	mg/kg
1997	116252	34 - 35.5	07-MAY-93	Sodium	233.000 -	227.947	mg/kg
1997	116257	38 - 39	07-MAY-93	Magnesium	48100.000 J	43052.339	mg/kg
1998	112045	2 - 3.5	28-APR-93	Arsenic	65.400 J	9.704	mg/kg
1998	112045	2 - 3.5	28-APR-93	Cyanide	.550 -	.17	mg/kg
1998	112045	2 - 3.5	28-APR-93	Vanadium	49.100 J	38.088	mg/kg
1998	112045	2 - 3.5	28-APR-93	Thallium	3.600 -	.49	mg/kg

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TABLE E-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
METALS (Continued)							
1998	112045	2 - 3.5	28-APR-93	Silver	.760 -		0 mg/kg
1998	112045	2 - 3.5	28-APR-93	Selenium	5.400 J		0 mg/kg
1998	112045	2 - 3.5	28-APR-93	Molybdenum	5.700 -		.27 mg/kg
1998	112045	2 - 3.5	28-APR-93	Lead	17.700 J		15.78 mg/kg
1998	112045	2 - 3.5	28-APR-93	Copper	35.800 -		20.23 mg/kg
1998	112045	2 - 3.5	28-APR-93	Barium	621.000 -		121.064 mg/kg
1998	112045	2 - 3.5	28-APR-93	Beryllium	6.900 -		.62 mg/kg
1998	112054	8 - 9.5	28-APR-93	Arsenic	10.900 J		9.704 mg/kg
1998	112054	8 - 9.5	28-APR-93	Molybdenum	2.800 -		.27 mg/kg
1998	112054	8 - 9.5	28-APR-93	Copper	23.000 -		20.23 mg/kg
1998	112054	8 - 9.5	28-APR-93	Cadmium	.960 -		.91 mg/kg
1998	112054	8 - 9.5	28-APR-93	Silver	.500 -		0 mg/kg
1998	112054	8 - 9.5	28-APR-93	Beryllium	1.700 -		.62 mg/kg
1998	112057	10 - 11.5	28-APR-93	Beryllium	1.500 -		.62 mg/kg
1998	112057	10 - 11.5	28-APR-93	Calcium	219000.000 J		150000 mg/kg
1998	112057	10 - 11.5	28-APR-93	Molybdenum	1.600 -		.27 mg/kg
1998	112057	10 - 11.5	28-APR-93	Magnesium	51400.000 -		43052.339 mg/kg
1998	112065	17 - 18.5	28-APR-93	Beryllium	1.300 -		.62 mg/kg
1998	112065	17 - 18.5	28-APR-93	Cadmium	1.200 -		.91 mg/kg
1998	112065	17 - 18.5	28-APR-93	Lead	18.300 J		15.78 mg/kg
1998	112065	17 - 18.5	28-APR-93	Molybdenum	1.400 -		.27 mg/kg
RADIOMUCLIDES							
11006	113492	22.5 - 24	26-APR-93	GROSS ALPHA	1132.000 J		0 pCi/g
11006	113492	22.5 - 24	26-APR-93	RA-226	9.740 -		1.47 pCi/g
11006	113492	22.5 - 24	26-APR-93	TH-TOTAL	10.300 -		9.47 mg/kg
11006	113492	22.5 - 24	26-APR-93	U-235/236	49.100 -		.142 pCi/g
11006	113492	22.5 - 24	26-APR-93	U-TOTAL	1714.000 -		2.54 mg/kg
11006	113492	22.5 - 24	26-APR-93	U-238	803.000 -		1.122 pCi/g
11006	113492	22.5 - 24	26-APR-93	U-234	771.000 -		1.034 pCi/g
11006	113492	22.5 - 24	26-APR-93	GROSS BETA	825.000 J		0 pCi/g
11006	113492	22.5 - 24	26-APR-93	NP-237	.118 N		0 pCi/g
11051	116438	21 - 22	27-MAY-93	GROSS ALPHA	2030.000 J		0 pCi/g
11051	116438	21 - 22	27-MAY-93	SR-90	.860 J		.56 pCi/g
11051	116438	21 - 22	27-MAY-93	RA-228	3.040 -		1.325 pCi/g
11051	116438	21 - 22	27-MAY-93	U-TOTAL	3580.000 -		2.54 mg/kg
11051	116438	21 - 22	27-MAY-93	U-238	1570.000 -		1.122 pCi/g
11051	116438	21 - 22	27-MAY-93	U-235/236	68.800 -		.142 pCi/g
11051	116438	21 - 22	27-MAY-93	U-234	1380.000 -		1.034 pCi/g
11051	116438	21 - 22	27-MAY-93	TH-TOTAL	23.100 -		9.47 mg/kg
11051	116438	21 - 22	27-MAY-93	TH-232	2.540 -		1.269 pCi/g
11051	116438	21 - 22	27-MAY-93	TH-230	121.000 -		1.897 pCi/g
11051	116438	21 - 22	27-MAY-93	TH-228	2.440 -		1.341 pCi/g

TABLE E-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND	UNITS
RADIONUCLIDES (Continued)								
11051	116438	21 - 22	27-MAY-93	RA-226	37.800	-	1.47	pCi/g
11051	116438	21 - 22	27-MAY-93	GROSS BETA	1810.000	-	0	pCi/g
11051	116438	21 - 22	27-MAY-93	NP-237	37.300	N	0	pCi/g
11051	116438	21 - 22	27-MAY-93	PU-239/240	1.770	J	0	pCi/g
11051	116438	21 - 22	27-MAY-93	PU-238	1.850	J	0	pCi/g
11051	116441	22 - 24	27-MAY-93	GROSS ALPHA	1490.000	J	0	pCi/g
11051	116441	22 - 24	27-MAY-93	GROSS BETA	1210.000	-	0	pCi/g
11051	116441	22 - 24	27-MAY-93	U-TOTAL	2280.000	-	2.54	mg/kg
11051	116441	22 - 24	27-MAY-93	U-238	763.000	-	1.122	pCi/g
11051	116441	22 - 24	27-MAY-93	U-235/236	35.500	-	.142	pCi/g
11051	116441	22 - 24	27-MAY-93	U-234	726.000	-	1.034	pCi/g
11051	116441	22 - 24	27-MAY-93	TH-TOTAL	16.100	-	9.47	mg/kg
11051	116441	22 - 24	27-MAY-93	TH-232	1.770	-	1.269	pCi/g
11051	116441	22 - 24	27-MAY-93	TH-230	74.900	-	1.897	pCi/g
11051	116441	22 - 24	27-MAY-93	TH-228	1.380	-	1.341	pCi/g
11051	116441	22 - 24	27-MAY-93	RA-228	2.290	-	1.325	pCi/g
11051	116441	22 - 24	27-MAY-93	RA-226	42.300	-	1.47	pCi/g
11051	116441	22 - 24	27-MAY-93	PU-239/240	.380	J	0	pCi/g
11051	116441	22 - 24	27-MAY-93	PU-238	.430	J	0	pCi/g
11051	116441	22 - 24	27-MAY-93	NP-237	1.910	N	0	pCi/g
11052	116427	19 - 21	25-MAY-93	GROSS ALPHA	214.000	J	0	pCi/g
11052	116427	19 - 21	25-MAY-93	TH-230	8.020	-	1.897	pCi/g
11052	116427	19 - 21	25-MAY-93	TH-228	1.410	-	1.341	pCi/g
11052	116427	19 - 21	25-MAY-93	U-TOTAL	294.000	-	2.54	mg/kg
11052	116427	19 - 21	25-MAY-93	U-238	115.800	J	1.122	pCi/g
11052	116427	19 - 21	25-MAY-93	U-235/236	5.760	J	.142	pCi/g
11052	116427	19 - 21	25-MAY-93	U-234	106.500	J	1.034	pCi/g
11052	116427	19 - 21	25-MAY-93	TH-TOTAL	12.300	-	9.47	mg/kg
11052	116427	19 - 21	25-MAY-93	TH-232	1.350	-	1.269	pCi/g
11052	116427	19 - 21	25-MAY-93	RA-228	1.600	-	1.325	pCi/g
11052	116427	19 - 21	25-MAY-93	RA-226	4.060	-	1.47	pCi/g
11052	116427	19 - 21	25-MAY-93	PU-239/240	.038	J	0	pCi/g
11052	116427	19 - 21	25-MAY-93	GROSS BETA	166.000	J	0	pCi/g
11052	116427	19 - 21	25-MAY-93	NP-237	.310	N	0	pCi/g
1994	116264	2 - 3.5	12-MAY-93	GROSS ALPHA	43.600	J	0	pCi/g
1994	116264	2 - 3.5	12-MAY-93	GROSS BETA	39.400	J	0	pCi/g
1994	116264	2 - 3.5	12-MAY-93	U-TOTAL	12.800	-	2.54	mg/kg
1994	116264	2 - 3.5	12-MAY-93	U-238	3.860	-	1.122	pCi/g
1994	116264	2 - 3.5	12-MAY-93	U-235/236	.162	J	.142	pCi/g
1994	116264	2 - 3.5	12-MAY-93	U-234	3.950	-	1.034	pCi/g
1994	116264	2 - 3.5	12-MAY-93	TH-TOTAL	24.100	-	9.47	mg/kg
1994	116264	2 - 3.5	12-MAY-93	TH-232	2.650	-	1.269	pCi/g
1994	116264	2 - 3.5	12-MAY-93	TH-230	2.950	-	1.897	pCi/g

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TABLE E-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND UNITS
<u>RADIONUCLIDES (Continued)</u>							
1994	116264	2 - 3.5	12-MAY-93	TH-228	3.080	-	1.341 pCi/g
1994	116264	2 - 3.5	12-MAY-93	RA-228	2.970	-	1.325 pCi/g
1994	116264	2 - 3.5	12-MAY-93	RA-226	2.960	-	1.47 pCi/g
1994	116264	2 - 3.5	12-MAY-93	PU-238	.080 J		0 pCi/g
1994	116283	14 - 15.5	12-MAY-93	GROSS ALPHA	36.700 J		0 pCi/g
1994	116283	14 - 15.5	12-MAY-93	RA-226	2.800	-	1.47 pCi/g
1994	116283	14 - 15.5	12-MAY-93	GROSS BETA	35.100 J		0 pCi/g
1994	116283	14 - 15.5	12-MAY-93	RA-228	2.650	-	1.325 pCi/g
1994	116283	14 - 15.5	12-MAY-93	U-TOTAL	13.300	-	2.54 mg/kg
1994	116283	14 - 15.5	12-MAY-93	U-238	1.540	-	1.122 pCi/g
1994	116283	14 - 15.5	12-MAY-93	U-234	1.330	-	1.034 pCi/g
1994	116283	14 - 15.5	12-MAY-93	TH-TOTAL	23.100	-	9.47 mg/kg
1994	116283	14 - 15.5	12-MAY-93	TH-232	2.540	-	1.269 pCi/g
1994	116283	14 - 15.5	12-MAY-93	TH-230	2.910	-	1.897 pCi/g
1994	116283	14 - 15.5	12-MAY-93	TH-228	2.620	-	1.341 pCi/g
1994	116301	26 - 27.5	13-MAY-93	GROSS ALPHA	71.400 J		0 pCi/g
1994	116301	26 - 27.5	13-MAY-93	PU-238	.082 J		0 pCi/g
1994	116301	26 - 27.5	13-MAY-93	U-235/236	1.050	-	.142 pCi/g
1994	116301	26 - 27.5	13-MAY-93	U-234	17.900	-	1.034 pCi/g
1994	116301	26 - 27.5	13-MAY-93	U-TOTAL	50.700	-	2.54 mg/kg
1994	116301	26 - 27.5	13-MAY-93	U-238	20.700	-	1.122 pCi/g
1994	116301	26 - 27.5	13-MAY-93	TH-TOTAL	10.400	-	9.47 mg/kg
1994	116301	26 - 27.5	13-MAY-93	NP-237	.228 N		0 pCi/g
1994	116301	26 - 27.5	13-MAY-93	TH-230	5.190	-	1.897 pCi/g
1994	116301	26 - 27.5	13-MAY-93	RA-228	1.800	-	1.325 pCi/g
1994	116301	26 - 27.5	13-MAY-93	RA-226	3.150	-	1.47 pCi/g
1994	116301	26 - 27.5	13-MAY-93	GROSS BETA	66.900 J		0 pCi/g
1994	116312	36 - 37.5	13-MAY-93	GROSS ALPHA	12.800 J		0 pCi/g
1994	116312	36 - 37.5	13-MAY-93	U-TOTAL	3.440 J		2.54 mg/kg
1994	116312	36 - 37.5	13-MAY-93	PU-239/240	.035 J		0 pCi/g
1994	116312	36 - 37.5	13-MAY-93	PU-238	.122 J		0 pCi/g
1994	116312	36 - 37.5	13-MAY-93	GROSS BETA	12.900 J		0 pCi/g
1995	116080	2 - 3.5	01-MAY-93	CS-137	.079 J		0 pCi/g
1995	116080	2 - 3.5	01-MAY-93	GROSS BETA	118.040	-	0 pCi/g
1995	116080	2 - 3.5	01-MAY-93	GROSS ALPHA	159.910	-	0 pCi/g
1995	116080	2 - 3.5	01-MAY-93	PU-239/240	.103 J		0 pCi/g
1995	116080	2 - 3.5	01-MAY-93	RA-226	1.710	-	1.47 pCi/g
1995	116080	2 - 3.5	01-MAY-93	U-TOTAL	187.000	-	2.54 mg/kg
1995	116080	2 - 3.5	01-MAY-93	U-238	62.700	-	1.122 pCi/g
1995	116080	2 - 3.5	01-MAY-93	U-235/236	2.910	-	.142 pCi/g
1995	116080	2 - 3.5	01-MAY-93	U-234	61.900	-	1.034 pCi/g
1995	116080	2 - 3.5	01-MAY-93	TH-TOTAL	22.900	-	9.47 mg/kg
1995	116080	2 - 3.5	01-MAY-93	TH-232	2.510	-	1.269 pCi/g

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TABLE E-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)							
1995	116080	2 - 3.5	01-MAY-93	TH-230	5.170	-	1.897 pCi/g
1995	116080	2 - 3.5	01-MAY-93	TH-228	2.610	-	1.341 pCi/g
1995	116080	2 - 3.5	01-MAY-93	RA-228	2.720	-	1.325 pCi/g
1995	116080	2 - 3.5	01-MAY-93	PU-238	.219	J	0 pCi/g
1995	116080	2 - 3.5	01-MAY-93	NP-237	.502	N	0 pCi/g
1995	116090	8 - 9	01-MAY-93	GROSS ALPHA	41.980	-	0 pCi/g
1995	116090	8 - 9	01-MAY-93	TH-TOTAL	17.700	J	9.47 mg/kg
1995	116090	8 - 9	01-MAY-93	TH-232	1.940	J	1.269 pCi/g
1995	116090	8 - 9	01-MAY-93	U-TOTAL	8.610	-	2.54 mg/kg
1995	116090	8 - 9	01-MAY-93	U-238	2.600	-	1.122 pCi/g
1995	116090	8 - 9	01-MAY-93	U-234	2.630	-	1.034 pCi/g
1995	116090	8 - 9	01-MAY-93	TH-230	4.140	J	1.897 pCi/g
1995	116090	8 - 9	01-MAY-93	TH-228	2.260	J	1.341 pCi/g
1995	116090	8 - 9	01-MAY-93	RA-228	2.590	-	1.325 pCi/g
1995	116090	8 - 9	01-MAY-93	RA-226	3.180	-	1.47 pCi/g
1995	116090	8 - 9	01-MAY-93	GROSS BETA	40.860	-	0 pCi/g
1995	116172	30 - 31.5	02-MAY-93	GROSS ALPHA	10.200	-	0 pCi/g
1995	116172	30 - 31.5	02-MAY-93	GROSS BETA	15.830	-	0 pCi/g
1995	116172	30 - 31.5	02-MAY-93	U-TOTAL	3.410	-	2.54 mg/kg
1995	116172	30 - 31.5	02-MAY-93	PU-239/240	.165	J	0 pCi/g
1995	116172	30 - 31.5	02-MAY-93	PU-238	.031	J	0 pCi/g
1995	116172	30 - 31.5	02-MAY-93	NP-237	.137	N	0 pCi/g
1996	112073	2 - 4	29-APR-93	CS-137	.104	J	0 pCi/g
1996	112073	2 - 4	29-APR-93	GROSS BETA	56.470	-	0 pCi/g
1996	112073	2 - 4	29-APR-93	RA-228	2.340	-	1.325 pCi/g
1996	112073	2 - 4	29-APR-93	TH-230	4.070	-	1.897 pCi/g
1996	112073	2 - 4	29-APR-93	TH-TOTAL	17.300	-	9.47 mg/kg
1996	112073	2 - 4	29-APR-93	TH-232	1.900	-	1.269 pCi/g
1996	112073	2 - 4	29-APR-93	U-TOTAL	48.300	-	2.54 mg/kg
1996	112073	2 - 4	29-APR-93	U-238	14.560	-	1.122 pCi/g
1996	112073	2 - 4	29-APR-93	U-235/236	.740	-	.142 pCi/g
1996	112073	2 - 4	29-APR-93	U-234	14.550	-	1.034 pCi/g
1996	112073	2 - 4	29-APR-93	TH-228	2.090	-	1.341 pCi/g
1996	112073	2 - 4	29-APR-93	RA-226	2.860	-	1.47 pCi/g
1996	112073	2 - 4	29-APR-93	PU-239/240	.130	J	0 pCi/g
1996	112073	2 - 4	29-APR-93	PU-238	.260	J	0 pCi/g
1996	112073	2 - 4	29-APR-93	NP-237	.490	N	0 pCi/g
1996	112073	2 - 4	29-APR-93	GROSS ALPHA	58.630	-	0 pCi/g
1996	112077	8 - 9.5	29-APR-93	GROSS ALPHA	46.600	J	0 pCi/g
1996	112077	8 - 9.5	29-APR-93	U-TOTAL	38.500	-	2.54 mg/kg
1996	112077	8 - 9.5	29-APR-93	U-238	9.900	J	1.122 pCi/g
1996	112077	8 - 9.5	29-APR-93	U-235/236	.730	J	.142 pCi/g
1996	112077	8 - 9.5	29-APR-93	U-234	9.480	J	1.034 pCi/g

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TABLE E-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)							
1996	112077	8 - 9.5	29-APR-93	TH-TOTAL	16.700	-	9.47 mg/kg
1996	112077	8 - 9.5	29-APR-93	TH-232	1.840	-	1.269 pCi/g
1996	112077	8 - 9.5	29-APR-93	TH-230	8.800	-	1.897 pCi/g
1996	112077	8 - 9.5	29-APR-93	TH-228	2.240	-	1.341 pCi/g
1996	112077	8 - 9.5	29-APR-93	RA-228	2.360	-	1.325 pCi/g
1996	112077	8 - 9.5	29-APR-93	RA-226	2.780	J	1.47 pCi/g
1996	112077	8 - 9.5	29-APR-93	PU-239/240	.120	J	0 pCi/g
1996	112077	8 - 9.5	29-APR-93	PU-238	.200	J	0 pCi/g
1996	112077	8 - 9.5	29-APR-93	NP-237	.480	N	0 pCi/g
1996	112077	8 - 9.5	29-APR-93	GROSS BETA	31.000	J	0 pCi/g
1996	112082	13 - 13.5	29-APR-93	GROSS ALPHA	27.200	J	0 pCi/g
1996	112082	13 - 13.5	29-APR-93	U-TOTAL	19.700	J	2.54 mg/kg
1996	112082	13 - 13.5	29-APR-93	U-238	2.840	J	1.122 pCi/g
1996	112082	13 - 13.5	29-APR-93	U-235/236	.160	J	.142 pCi/g
1996	112082	13 - 13.5	29-APR-93	U-234	2.650	J	1.034 pCi/g
1996	112082	13 - 13.5	29-APR-93	TH-TOTAL	23.700	-	9.47 mg/kg
1996	112082	13 - 13.5	29-APR-93	TH-232	2.600	-	1.269 pCi/g
1996	112082	13 - 13.5	29-APR-93	TH-230	4.700	-	1.897 pCi/g
1996	112082	13 - 13.5	29-APR-93	TH-228	2.650	-	1.341 pCi/g
1996	112082	13 - 13.5	29-APR-93	RA-228	1.960	-	1.325 pCi/g
1996	112082	13 - 13.5	29-APR-93	PU-238	.310	J	0 pCi/g
1996	112082	13 - 13.5	29-APR-93	GROSS BETA	30.700	J	0 pCi/g
1996	112082	13 - 13.5	29-APR-93	RA-226	2.540	J	1.47 pCi/g
1996	112082	13 - 13.5	29-APR-93	PU-239/240	.160	J	0 pCi/g
1996	112082	13 - 13.5	29-APR-93	NP-237	.270	N	0 pCi/g
1996	116070	20 - 21.5	29-APR-93	GROSS ALPHA	17.780	-	0 pCi/g
1996	116070	20 - 21.5	29-APR-93	U-TOTAL	3.620	J	2.54 mg/kg
1996	116070	20 - 21.5	29-APR-93	TH-230	2.030	-	1.897 pCi/g
1996	116070	20 - 21.5	29-APR-93	NP-237	.086	N	0 pCi/g
1996	116070	20 - 21.5	29-APR-93	GROSS BETA	12.410	-	0 pCi/g
1997	116177	- 1.5	05-MAY-93	CS-137	.550	J	0 pCi/g
1997	116177	- 1.5	05-MAY-93	GROSS BETA	54.400	J	0 pCi/g
1997	116177	- 1.5	05-MAY-93	NP-237	.300	N	0 pCi/g
1997	116177	- 1.5	05-MAY-93	PU-238	.060	J	0 pCi/g
1997	116177	- 1.5	05-MAY-93	PU-239/240	.090	J	0 pCi/g
1997	116177	- 1.5	05-MAY-93	GROSS ALPHA	38.700	J	0 pCi/g
1997	116177	- 1.5	05-MAY-93	U-TOTAL	69.800	J	2.54 mg/kg
1997	116177	- 1.5	05-MAY-93	U-238	23.700	J	1.122 pCi/g
1997	116177	- 1.5	05-MAY-93	U-235/236	1.280	J	.142 pCi/g
1997	116177	- 1.5	05-MAY-93	U-234	23.400	J	1.034 pCi/g
1997	116192	10 - 11.5	05-MAY-93	GROSS ALPHA	42.100	J	0 pCi/g
1997	116192	10 - 11.5	05-MAY-93	PU-238	.270	J	0 pCi/g
1997	116192	10 - 11.5	05-MAY-93	PU-239/240	.040	J	0 pCi/g

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TABLE E-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
<u>RADIONUCLIDES (Continued)</u>							
1997	116192	10 - 11.5	05-MAY-93	RA-228	2.220 -		1.325 pCi/g
1997	116192	10 - 11.5	05-MAY-93	TH-230	3.050 J		1.897 pCi/g
1997	116192	10 - 11.5	05-MAY-93	U-235/236	.210 J		.142 pCi/g
1997	116192	10 - 11.5	05-MAY-93	TH-TOTAL	21.300 J		9.47 mg/kg
1997	116192	10 - 11.5	05-MAY-93	U-TOTAL	10.900 J		2.54 mg/kg
1997	116192	10 - 11.5	05-MAY-93	U-238	4.190 J		1.122 pCi/g
1997	116192	10 - 11.5	05-MAY-93	U-234	3.910 J		1.034 pCi/g
1997	116192	10 - 11.5	05-MAY-93	TH-232	2.340 J		1.269 pCi/g
1997	116192	10 - 11.5	05-MAY-93	TH-228	2.360 J		1.341 pCi/g
1997	116192	10 - 11.5	05-MAY-93	RA-226	2.850 -		1.47 pCi/g
1997	116192	10 - 11.5	05-MAY-93	NP-237	.160 N		0 pCi/g
1997	116192	10 - 11.5	05-MAY-93	GROSS BETA	30.800 J		0 pCi/g
1997	116243	28.5 - 30	06-MAY-93	GROSS ALPHA	18.300 J		0 pCi/g
1997	116243	28.5 - 30	06-MAY-93	U-TOTAL	5.620 J		2.54 mg/kg
1997	116243	28.5 - 30	06-MAY-93	PU-239/240	.060 J		0 pCi/g
1997	116243	28.5 - 30	06-MAY-93	PU-238	.040 J		0 pCi/g
1997	116243	28.5 - 30	06-MAY-93	NP-237	.180 N		0 pCi/g
1997	116243	28.5 - 30	06-MAY-93	GROSS BETA	32.900 J		0 pCi/g
1997	116252	34 - 35.5	07-MAY-93	GROSS ALPHA	9.630 J		0 pCi/g
1997	116252	34 - 35.5	07-MAY-93	GROSS BETA	22.700 J		0 pCi/g
1997	116252	34 - 35.5	07-MAY-93	NP-237	.260 N		0 pCi/g
1997	116252	34 - 35.5	07-MAY-93	PU-239/240	.050 J		0 pCi/g
1997	116252	34 - 35.5	07-MAY-93	U-TOTAL	2.620 J		2.54 mg/kg
1997	116252	34 - 35.5	07-MAY-93	PU-238	.040 J		0 pCi/g
1997	116257	38 - 39	07-MAY-93	GROSS ALPHA	9.890 J		0 pCi/g
1997	116257	38 - 39	07-MAY-93	GROSS BETA	14.500 J		0 pCi/g
1997	116257	38 - 39	07-MAY-93	U-234	1.290 -		1.034 pCi/g
1997	116257	38 - 39	07-MAY-93	U-TOTAL	5.860 -		2.54 mg/kg
1997	116257	38 - 39	07-MAY-93	U-238	1.440 -		1.122 pCi/g
1997	116257	38 - 39	07-MAY-93	PU-239/240	.040 J		0 pCi/g
1997	116257	38 - 39	07-MAY-93	PU-238	.040 J		0 pCi/g
1997	116257	38 - 39	07-MAY-93	NP-237	.180 N		0 pCi/g
1998	112045	2 - 3.5	28-APR-93	GROSS ALPHA	40.000 -		0 pCi/g
1998	112045	2 - 3.5	28-APR-93	U-TOTAL	14.300 -		2.54 mg/kg
1998	112045	2 - 3.5	28-APR-93	U-238	4.460 -		1.122 pCi/g
1998	112045	2 - 3.5	28-APR-93	U-235/236	.190 J		.142 pCi/g
1998	112045	2 - 3.5	28-APR-93	U-234	4.230 -		1.034 pCi/g
1998	112045	2 - 3.5	28-APR-93	RA-228	2.510 -		1.325 pCi/g
1998	112045	2 - 3.5	28-APR-93	RA-226	3.440 -		1.47 pCi/g
1998	112045	2 - 3.5	28-APR-93	PU-239/240	.069 J		0 pCi/g
1998	112045	2 - 3.5	28-APR-93	PU-238	.115 J		0 pCi/g
1998	112045	2 - 3.5	28-APR-93	NP-237	.113 N		0 pCi/g
1998	112045	2 - 3.5	28-APR-93	GROSS BETA	35.100 -		0 pCi/g

TABLE E-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)							
1998	112054	8 - 9.5	28-APR-93	CS-137	.088	J	0 pCi/g
1998	112054	8 - 9.5	28-APR-93	U-TOTAL	14.900	-	2.54 mg/kg
1998	112054	8 - 9.5	28-APR-93	U-238	4.780	-	1.122 pCi/g
1998	112054	8 - 9.5	28-APR-93	U-235/236	.210	J	.142 pCi/g
1998	112054	8 - 9.5	28-APR-93	U-234	4.140	-	1.034 pCi/g
1998	112054	8 - 9.5	28-APR-93	GROSS ALPHA	19.110	-	0 pCi/g
1998	112054	8 - 9.5	28-APR-93	NP-237	.165	N	0 pCi/g
1998	112054	8 - 9.5	28-APR-93	GROSS BETA	35.780	-	0 pCi/g
1998	112054	8 - 9.5	28-APR-93	TH-230	2.800	-	1.897 pCi/g
1998	112057	10 - 11.5	28-APR-93	CS-137	.105	J	0 pCi/g
1998	112057	10 - 11.5	28-APR-93	PU-238	.133	J	0 pCi/g
1998	112057	10 - 11.5	28-APR-93	NP-237	.490	N	0 pCi/g
1998	112057	10 - 11.5	28-APR-93	U-238	9.220	-	1.122 pCi/g
1998	112057	10 - 11.5	28-APR-93	U-235/236	.400	J	.142 pCi/g
1998	112057	10 - 11.5	28-APR-93	U-234	8.600	-	1.034 pCi/g
1998	112057	10 - 11.5	28-APR-93	TH-TOTAL	12.300	-	9.47 mg/kg
1998	112057	10 - 11.5	28-APR-93	TH-232	1.350	-	1.269 pCi/g
1998	112057	10 - 11.5	28-APR-93	TH-230	4.170	-	1.897 pCi/g
1998	112057	10 - 11.5	28-APR-93	RA-228	1.590	-	1.325 pCi/g
1998	112057	10 - 11.5	28-APR-93	RA-226	2.070	-	1.47 pCi/g
1998	112057	10 - 11.5	28-APR-93	U-TOTAL	31.700	-	2.54 mg/kg
1998	112057	10 - 11.5	28-APR-93	PU-239/240	.100	J	0 pCi/g
1998	112057	10 - 11.5	28-APR-93	GROSS BETA	33.670	-	0 pCi/g
1998	112057	10 - 11.5	28-APR-93	GROSS ALPHA	38.340	-	0 pCi/g
1998	112065	17 - 18.5	28-APR-93	GROSS ALPHA	7.810	-	0 pCi/g
1998	112065	17 - 18.5	28-APR-93	U-TOTAL	4.390	-	2.54 mg/kg
1998	112065	17 - 18.5	28-APR-93	PU-238	.066	J	0 pCi/g
1998	112065	17 - 18.5	28-APR-93	NP-237	.160	N	0 pCi/g
1998	112065	17 - 18.5	28-APR-93	GROSS BETA	19.400	-	0 pCi/g
VOLATILE ORGANICS							
11052	116427	19 - 21	25-MAY-93	Acetone	6.000	J	0 ug/kg
11054	116340	16 - 17	21-MAY-93	Toluene	2.000	J	0 ug/kg
11054	116341	23 - 24	21-MAY-93	Toluene	1.000	J	0 ug/kg
11055	116331	16 - 18	19-MAY-93	1,1,1-Trichloroethane	8.000	J	0 ug/kg
11055	116331	16 - 18	19-MAY-93	Acetone	23.000	J	0 ug/kg
11055	116331	16 - 18	19-MAY-93	Tetrachloroethene	1.000	J	0 ug/kg
11055	116332	23.5 - 25	19-MAY-93	Acetone	11.000	-	0 ug/kg
11055	116332	23.5 - 25	19-MAY-93	Toluene	37.000	-	0 ug/kg
11056	116335	17 - 18	20-MAY-93	1,1,1-Trichloroethane	12.000	J	0 ug/kg
11056	116335	17 - 18	20-MAY-93	Toluene	23.000	J	0 ug/kg
11057	116337	17 - 18	20-MAY-93	Toluene	1.000	J	0 ug/kg
1994	116264	2 - 3.5	12-MAY-93	1,1,1-Trichloroethane	18.000	J	0 ug/kg

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TABLE E-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
VOLATILE ORGANICS (Continued)							
1994	116264	2 - 3.5	12-MAY-93	Methylene chloride	54.000 J	0	ug/kg
1994	116264	2 - 3.5	12-MAY-93	Toluene	4.000 J	0	ug/kg
1994	116264	2 - 3.5	12-MAY-93	Acetone	12.000 J	0	ug/kg
1994	116283	14 - 15.5	12-MAY-93	1,1,1-Trichloroethane	35.000 J	0	ug/kg
1994	116283	14 - 15.5	12-MAY-93	Toluene	22.000 J	0	ug/kg
1994	116283	14 - 15.5	12-MAY-93	Methylene chloride	110.000 J	0	ug/kg
1994	116283	14 - 15.5	12-MAY-93	Chloromethane	52.000 J	0	ug/kg
1994	116283	14 - 15.5	12-MAY-93	4-Methyl-2-pentanone	3.000 J	0	ug/kg
1994	116283	14 - 15.5	12-MAY-93	Acetone	29.000 J	0	ug/kg
1994	116301	26 - 27.5	13-MAY-93	1,1,1-Trichloroethane	5.000 J	0	ug/kg
1994	116301	26 - 27.5	13-MAY-93	Acetone	3.000 J	0	ug/kg
1994	116301	26 - 27.5	13-MAY-93	Toluene	97.000 J	0	ug/kg
1994	116301	26 - 27.5	13-MAY-93	Methylene chloride	66.000 -	0	ug/kg
1994	116312	36 - 37.5	13-MAY-93	Acetone	12.000 -	0	ug/kg
1994	116312	36 - 37.5	13-MAY-93	Methylene chloride	53.000 -	0	ug/kg
1994	116312	36 - 37.5	13-MAY-93	Toluene	4.000 J	0	ug/kg
1995	116080	2 - 3.5	01-MAY-93	1,1,1-Trichloroethane	32.000 J	0	ug/kg
1995	116080	2 - 3.5	01-MAY-93	Toluene	14.000 J	0	ug/kg
1995	116090	8 - 9	01-MAY-93	Methylene chloride	180.000 J	0	ug/kg
1995	116090	8 - 9	01-MAY-93	Toluene	1800.000 J	0	ug/kg
1995	116172	30 - 31.5	02-MAY-93	1,1,1-Trichloroethane	1.000 J	0	ug/kg
1995	116392	8 - 9.5	07-JUN-93	1,1,1-Trichloroethane	920.000 J	0	ug/kg
1995	116392	8 - 9.5	07-JUN-93	Trichloroethene	2.000 J	0	ug/kg
1995	116392	8 - 9.5	07-JUN-93	Toluene	25.000 J	0	ug/kg
1995	116392	8 - 9.5	07-JUN-93	Methylene chloride	67.000 J	0	ug/kg
1995	116392	8 - 9.5	07-JUN-93	Acetone	10.000 J	0	ug/kg
1996	112077	8 - 9.5	29-APR-93	Toluene	180.000 -	0	ug/kg
1996	112084	14 - 15	29-APR-93	Toluene	1000.000 J	0	ug/kg
1996	116070	20 - 21.5	29-APR-93	4-Methyl-2-pentanone	6.000 J	0	ug/kg
1996	116070	20 - 21.5	29-APR-93	Toluene	78.000 J	0	ug/kg
1997	116177	- 1.5	05-MAY-93	Toluene	14.000 -	0	ug/kg
1997	116192	10 - 11.5	05-MAY-93	Chlorobenzene	14.000 J	0	ug/kg
1997	116243	28.5 - 30	06-MAY-93	Acetone	11.000 J	0	ug/kg
1997	116252	34 - 35.5	07-MAY-93	2-Butanone	3.000 J	0	ug/kg
1997	116252	34 - 35.5	07-MAY-93	Acetone	16.000 -	0	ug/kg
1997	116257	38 - 39	07-MAY-93	Toluene	16.000 -	0	ug/kg
1998	112045	2 - 3.5	28-APR-93	1,1,1-Trichloroethane	16.000 J	0	ug/kg
1998	112045	2 - 3.5	28-APR-93	Toluene	150.000 J	0	ug/kg
1998	112054	8 - 9.5	28-APR-93	1,1,1-Trichloroethane	3.000 J	0	ug/kg
1998	112065	17 - 18.5	28-APR-93	Toluene	59.000 -	0	ug/kg

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TABLE E-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
SEMIVOLATILE ORGANICS							
11006	113492	22.5 - 24	26-APR-93	4-Methylphenol	10.000	J	0 ug/kg
11006	113492	22.5 - 24	26-APR-93	bis(2-Ethylhexyl) phthalate	2.000	J	0 ug/kg
11006	113492	22.5 - 24	26-APR-93	Tributyl phosphate	2.000	J	0 ug/kg
11006	113492	22.5 - 24	26-APR-93	Isophorone	4.000	J	0 ug/kg
11006	113492	22.5 - 24	26-APR-93	Indeno(1,2,3-cd)pyrene	4.000	J	0 ug/kg
11006	113492	22.5 - 24	26-APR-93	Dibenzo(a,h)anthracene	2.000	J	0 ug/kg
11006	113492	22.5 - 24	26-APR-93	Chrysene	8.000	J	0 ug/kg
11006	113492	22.5 - 24	26-APR-93	Carbazole	1.000	J	0 ug/kg
11006	113492	22.5 - 24	26-APR-93	Benzo(k)fluoranthene	6.000	J	0 ug/kg
11006	113492	22.5 - 24	26-APR-93	Benzo(g,h,i)perylene	4.000	J	0 ug/kg
11006	113492	22.5 - 24	26-APR-93	Benzo(b)fluoranthene	5.000	J	0 ug/kg
11006	113492	22.5 - 24	26-APR-93	Benzo(a)pyrene	7.000	J	0 ug/kg
11006	113492	22.5 - 24	26-APR-93	Benzo(a)anthracene	8.000	J	0 ug/kg
11006	113492	22.5 - 24	26-APR-93	Anthracene	3.000	J	0 ug/kg
11006	113492	22.5 - 24	26-APR-93	Pyrene	14.000	J	0 ug/kg
11006	113492	22.5 - 24	26-APR-93	Phenol	2.000	J	0 ug/kg
11006	113492	22.5 - 24	26-APR-93	Phenanthrene	10.000	J	0 ug/kg
11006	113492	22.5 - 24	26-APR-93	Fluoranthene	16.000	J	0 ug/kg
11051	116441	22 - 24	27-MAY-93	4-Methylphenol	54.000	J	0 ug/kg
11051	116441	22 - 24	27-MAY-93	Benzo(a)anthracene	100.000	J	0 ug/kg
11051	116441	22 - 24	27-MAY-93	Benzo(b)fluoranthene	81.000	J	0 ug/kg
11051	116441	22 - 24	27-MAY-93	Chrysene	110.000	J	0 ug/kg
11051	116441	22 - 24	27-MAY-93	Di-n-butyl phthalate	55.000	J	0 ug/kg
11051	116441	22 - 24	27-MAY-93	Phenanthrene	210.000	J	0 ug/kg
11051	116441	22 - 24	27-MAY-93	Indeno(1,2,3-cd)pyrene	46.000	J	0 ug/kg
11051	116441	22 - 24	27-MAY-93	bis(2-Ethylhexyl) phthalate	160.000	J	0 ug/kg
11051	116441	22 - 24	27-MAY-93	Tributyl phosphate	200.000	J	0 ug/kg
11051	116441	22 - 24	27-MAY-93	Pyrene	220.000	J	0 ug/kg
11051	116441	22 - 24	27-MAY-93	Fluoranthene	260.000	J	0 ug/kg
11051	116441	22 - 24	27-MAY-93	Benzo(k)fluoranthene	84.000	J	0 ug/kg
11051	116441	22 - 24	27-MAY-93	Benzo(g,h,i)perylene	57.000	J	0 ug/kg
11051	116441	22 - 24	27-MAY-93	Benzo(a)pyrene	88.000	J	0 ug/kg
11052	116427	19 - 21	25-MAY-93	bis(2-Ethylhexyl) phthalate	52.000	J	0 ug/kg
11054	116340	16 - 17	21-MAY-93	bis(2-Ethylhexyl) phthalate	54.000	J	0 ug/kg
11054	116341	23 - 24	21-MAY-93	bis(2-Ethylhexyl) phthalate	46.000	J	0 ug/kg
11055	116331	16 - 18	19-MAY-93	Di-n-butyl phthalate	59.000	J	0 ug/kg
11055	116331	16 - 18	19-MAY-93	bis(2-Ethylhexyl) phthalate	48.000	J	0 ug/kg
11055	116332	23.5 - 25	19-MAY-93	bis(2-Ethylhexyl) phthalate	36.000	J	0 ug/kg
11056	116336	23 - 24	20-MAY-93	Di-n-butyl phthalate	43.000	J	0 ug/kg
11056	116336	23 - 24	20-MAY-93	bis(2-Ethylhexyl) phthalate	57.000	J	0 ug/kg
1994	116264	2 - 3.5	12-MAY-93	Anthracene	49.000	J	0 ug/kg
1994	116264	2 - 3.5	12-MAY-93	bis(2-Ethylhexyl) phthalate	500.000	-	0 ug/kg
1994	116264	2 - 3.5	12-MAY-93	Pyrene	260.000	J	0 ug/kg

TABLE E-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
SEMIVOLATILE ORGANICS (Continued)							
1994	116264	2 - 3.5	12-MAY-93	Phenanthrene	280.000	J	0 ug/kg
1994	116264	2 - 3.5	12-MAY-93	Indeno(1,2,3-cd)pyrene	63.000	J	0 ug/kg
1994	116264	2 - 3.5	12-MAY-93	Fluoranthene	340.000	J	0 ug/kg
1994	116264	2 - 3.5	12-MAY-93	Chrysene	150.000	J	0 ug/kg
1994	116264	2 - 3.5	12-MAY-93	Benzo(k)fluoranthene	190.000	J	0 ug/kg
1994	116264	2 - 3.5	12-MAY-93	Benzo(g,h,i)perylene	59.000	J	0 ug/kg
1994	116264	2 - 3.5	12-MAY-93	Benzo(b)fluoranthene	140.000	J	0 ug/kg
1994	116264	2 - 3.5	12-MAY-93	Benzo(a)pyrene	98.000	J	0 ug/kg
1994	116264	2 - 3.5	12-MAY-93	Benzo(a)anthracene	130.000	J	0 ug/kg
1994	116283	14 - 15.5	12-MAY-93	bis(2-Ethylhexyl) phthalate	860.000	-	0 ug/kg
1994	116301	26 - 27.5	13-MAY-93	bis(2-Ethylhexyl) phthalate	990.000	-	0 ug/kg
1994	116312	36 - 37.5	13-MAY-93	bis(2-Ethylhexyl) phthalate	48.000	J	0 ug/kg
1995	116080	2 - 3.5	01-MAY-93	Benzo(a)anthracene	39.000	J	0 ug/kg
1995	116080	2 - 3.5	01-MAY-93	Chrysene	48.000	J	0 ug/kg
1995	116080	2 - 3.5	01-MAY-93	bis(2-Ethylhexyl) phthalate	2600.000	-	0 ug/kg
1995	116080	2 - 3.5	01-MAY-93	Pyrene	96.000	J	0 ug/kg
1995	116080	2 - 3.5	01-MAY-93	Phenanthrene	56.000	J	0 ug/kg
1995	116080	2 - 3.5	01-MAY-93	Fluoranthene	99.000	J	0 ug/kg
1995	116080	2 - 3.5	01-MAY-93	Benzo(k)fluoranthene	43.000	J	0 ug/kg
1995	116090	8 - 9	01-MAY-93	bis(2-Ethylhexyl) phthalate	1600.000	-	0 ug/kg
1995	116172	30 - 31.5	02-MAY-93	Diethyl phthalate	180.000	J	0 ug/kg
1995	116172	30 - 31.5	02-MAY-93	bis(2-Ethylhexyl) phthalate	58.000	J	0 ug/kg
1996	112077	8 - 9.5	29-APR-93	2-Methylnaphthalene	74.000	J	0 ug/kg
1996	112077	8 - 9.5	29-APR-93	Di-n-butyl phthalate	110.000	J	0 ug/kg
1996	112077	8 - 9.5	29-APR-93	Phenanthrene	60.000	J	0 ug/kg
1996	112077	8 - 9.5	29-APR-93	bis(2-Ethylhexyl) phthalate	260.000	J	0 ug/kg
1996	112077	8 - 9.5	29-APR-93	Naphthalene	81.000	J	0 ug/kg
1996	112084	14 - 15	29-APR-93	bis(2-Ethylhexyl) phthalate	2800.000	-	0 ug/kg
1996	116070	20 - 21.5	29-APR-93	bis(2-Ethylhexyl) phthalate	130.000	J	0 ug/kg
1997	116192	10 - 11.5	05-MAY-93	Diethyl phthalate	52.000	J	0 ug/kg
1998	112045	2 - 3.5	28-APR-93	bis(2-Ethylhexyl) phthalate	150.000	J	0 ug/kg
1998	112054	8 - 9.5	28-APR-93	bis(2-Ethylhexyl) phthalate	87.000	J	0 ug/kg
1998	112057	10 - 11.5	28-APR-93	bis(2-Ethylhexyl) phthalate	130.000	J	0 ug/kg
1998	112065	17 - 18.5	28-APR-93	bis(2-Ethylhexyl) phthalate	840.000	J	0 ug/kg
PESTICIDES/PCBs							
11006	113492	22.5 - 24	26-APR-93	Aroclor-1254	570.000	J	0 ug/kg
11051	116441	22 - 24	27-MAY-93	Aroclor-1254	180.000	J	0 ug/kg
1995	116080	2 - 3.5	01-MAY-93	Aroclor-1254	120.000	J	0 ug/kg
1995	116080	2 - 3.5	01-MAY-93	alpha-Chlordane	3.300	J	0 ug/kg

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000045

TABLE E-2D
INACTIVE FLYASH PILE
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN SURFACE WATER
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	QUAL	BACKGROUND UNITS
METALS								
ASIT-009	001175	-	30-MAR-89	Barium	UNKN	.027	J	0 mg/L
ASIT-009	001175	-	30-MAR-89	Cadmium	UNKN	.002	J	0 mg/L
ASIT-009	001175	-	30-MAR-89	Iron	UNKN	.284	J	0 mg/L
ASIT-009	001175	-	30-MAR-89	Calcium	UNKN	38.300	J	0 mg/L
ASIT-009	001175	-	30-MAR-89	Manganese	UNKN	.046	J	0 mg/L
ASIT-009	001175	-	30-MAR-89	Nickel	UNKN	.008	J	0 mg/L
ASIT-009	001175	-	30-MAR-89	Sodium	UNKN	1.990	-	0 mg/L
ASIT-009	001175	-	30-MAR-89	Potassium	N/A	2.330	-	0 mg/L
ASIT-009	001175	-	30-MAR-89	Mercury	UNKN	.001	J	0 mg/L
ASIT-009	001175	-	30-MAR-89	Magnesium	UNKN	10.100	J	0 mg/L
ASIT-009	001175	-	30-MAR-89	Lead	UNKN	.008	J	0 mg/L
W-11	001209	-	14-MAY-89	Aluminum	UNKN	.076	J	0 mg/L
W-11	001209	-	14-MAY-89	Barium	UNKN	.031	J	0 mg/L
W-11	001209	-	14-MAY-89	Calcium	UNKN	71.800	J	0 mg/L
W-11	001209	-	14-MAY-89	Magnesium	UNKN	20.900	J	0 mg/L
W-11	001209	-	14-MAY-89	Lead	UNKN	.009	-	0 mg/L
W-11	001209	-	14-MAY-89	Iron	UNKN	.042	J	0 mg/L
W-11	001209	-	14-MAY-89	Manganese	UNKN	.012	J	0 mg/L
W-11	001209	-	14-MAY-89	Mercury	UNKN	.000	-	0 mg/L
W-11	001209	-	14-MAY-89	Silicon	UNKN	2.250	J	0 mg/L
W-11	001209	-	14-MAY-89	Potassium	UNKN	1.680	J	0 mg/L
W-11	001209	-	14-MAY-89	Sodium	UNKN	9.690	J	0 mg/L
W-11	001247	-	15-JUL-90	Barium	UNKN	.047	-	0 mg/L
W-11	001247	-	15-JUL-90	Chromium	UNKN	.026	-	0 mg/L
W-11	001247	-	15-JUL-90	Calcium	UNKN	86.900	-	0 mg/L
W-11	001247	-	15-JUL-90	Cadmium	UNKN	.003	-	0 mg/L
W-11	001247	-	15-JUL-90	Iron	UNKN	.024	-	0 mg/L
W-11	001247	-	15-JUL-90	Magnesium	UNKN	20.600	-	0 mg/L
W-11	001247	-	15-JUL-90	Nickel	UNKN	.025	-	0 mg/L
W-11	001247	-	15-JUL-90	Manganese	UNKN	.009	-	0 mg/L
W-11	001247	-	15-JUL-90	Vanadium	UNKN	.013	-	0 mg/L
W-11	001247	-	15-JUL-90	Sodium	UNKN	9.750	-	0 mg/L
W-11	001247	-	15-JUL-90	Silver	N/A	.013	-	0 mg/L

See footnotes at end of table

TABLE E-2D
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	VAL BACKGROUND	VAL UNITS
<u>METALS (Continued)</u>									
W-11	001247	-	15-JUL-90	Silicon	UNKN	4.610	-	0	mg/L
W-11	001247	-	15-JUL-90	Potassium	UNKN	3.030	-	0	mg/L
W-11	001247	-	15-JUL-90	Lead	UNKN	.006	-	0	mg/L
<u>RADIONUCLIDES</u>									
ASIT-009	001174	-	30-MAR-89	U-TOTAL	FLTR	32.000	-	0	ug/L
ASIT-009	001175	-	30-MAR-89	U-TOTAL	UNFL	40.000	-	0	ug/L
W-11	001107	-	12-JAN-89	U-234	FLTR	3.200	-	0	pCi/L
W-11	001107	-	12-JAN-89	U-238	UNFL	6.800	-	0	pCi/L
W-11	001107	-	12-JAN-89	U-238	FLTR	6.200	-	0	pCi/L
W-11	001107	-	12-JAN-89	U-234	UNFL	5.000	-	0	pCi/L
W-11	001208	-	14-MAY-89	U-234	FLTR	2.200	-	0	pCi/L
W-11	001208	-	14-MAY-89	U-238	FLTR	2.800	-	0	pCi/L
W-11	001208	-	14-MAY-89	U-TOTAL	FLTR	9.000	-	0	ug/L
W-11	001209	-	14-MAY-89	U-234	UNFL	2.500	-	0	pCi/L
W-11	001209	-	14-MAY-89	U-TOTAL	UNFL	9.000	-	0	ug/L
W-11	001209	-	14-MAY-89	U-238	UNFL	2.600	-	0	pCi/L
W-11	001247	-	15-JUL-90	TH-230	UNKN	6.740	J	0	pCi/L
W-11	001247	-	15-JUL-90	TH-TOTAL	N/A	3.580	J	0	ug/L
W-11	001247	-	15-JUL-90	U-238	UNKN	3.660	-	0	pCi/L
W-11	001247	-	15-JUL-90	U-234	UNKN	4.260	-	0	pCi/L
W-11	001248	-	15-JUL-90	SR-90	UNKN	24.000	-	0	pCi/L
W-11	001248	-	15-JUL-90	TH-230	UNKN	2.810	J	0	pCi/L
W-11	001248	-	15-JUL-90	U-238	UNKN	3.500	-	0	pCi/L
W-11	001248	-	15-JUL-90	U-234	UNKN	3.680	-	0	pCi/L
<u>GENERAL CHEMISTRY</u>									
ASIT-009	001175	-	30-MAR-89	Ammonia	UNFL	.163	J	0	mg/L
ASIT-009	001175	-	30-MAR-89	Chloride	UNFL	3.500	J	0	mg/L
ASIT-009	001175	-	30-MAR-89	Phosphorus	UNFL	.842	J	0	mg/L
ASIT-009	001175	-	30-MAR-89	Nitrate	UNFL	.140	J	0	mg/L
ASIT-009	001175	-	30-MAR-89	Fluoride	UNFL	.300	J	0	mg/L
ASIT-009	001175	-	30-MAR-89	Sulfate	N/A	171.000	J	0	mg/L
ASIT-009	001175	-	30-MAR-89	Total Organic Halides	UNFL	.016	J	0	mg/L
ASIT-009	001175	-	30-MAR-89	Total Organic Nitrogen	UNFL	.927	J	0	mg/L
ASIT-009	001175	-	30-MAR-89	Total Kjeldahl Nitrogen	UNFL	1.090	J	0	mg/L
W-11	001107	-	12-JAN-89	Ammonia	UNFL	.452	-	0	mg/L
W-11	001107	-	12-JAN-89	Chloride	UNFL	16.500	J	0	mg/L
W-11	001107	-	12-JAN-89	Phosphorus	UNFL	.541	J	0	mg/L
W-11	001107	-	12-JAN-89	Nitrate	UNFL	4.600	J	0	mg/L

See footnotes at end of table

TABLE E-2D
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
GENERAL CHEMISTRY (Continued)								
W-11	001107	-	12-JAN-89	Fluoride	UNFL	.215	-	0 mg/L
W-11	001107	-	12-JAN-89	Sulfate	UNFL	37.000	J	0 mg/L
W-11	001107	-	12-JAN-89	Total Organic Nitrogen	UNFL	1.360	J	0 mg/L
W-11	001107	-	12-JAN-89	Total Kjeldahl Nitrogen	UNFL	1.810	J	0 mg/L
W-11	001209	-	14-MAY-89	Chloride	UNFL	19.990	J	0 mg/L
W-11	001209	-	14-MAY-89	Total Organic Nitrogen	UNFL	.347	J	0 mg/L
W-11	001209	-	14-MAY-89	Total Organic Halides	UNFL	.010	J	0 mg/L
W-11	001209	-	14-MAY-89	Fluoride	UNFL	.180	J	0 mg/L
W-11	001209	-	14-MAY-89	Sulfate	UNFL	57.360	J	0 mg/L
W-11	001209	-	14-MAY-89	Total Kjeldahl Nitrogen	UNFL	.347	J	0 mg/L
W-11	001209	-	14-MAY-89	Nitrate	UNFL	2.310	J	0 mg/L
W-11	001247	-	15-JUL-90	Chloride	UNFL	9.210	-	0 mg/L
W-11	001247	-	15-JUL-90	Phosphorus	UNFL	.170	J	0 mg/L
W-11	001247	-	15-JUL-90	Total Organic Carbon	UNFL	5.590	-	0 mg/L
W-11	001247	-	15-JUL-90	Total Organic Nitrogen	UNFL	.580	-	0 mg/L
W-11	001247	-	15-JUL-90	Sulfate	UNFL	44.800	-	0 mg/L
W-11	001247	-	15-JUL-90	Nitrate	UNFL	12.100	J	0 mg/L
W-11	001247	-	15-JUL-90	Fluoride	UNFL	.220	-	0 mg/L

^aZero background concentration has been used for surface water. Background data for surface water is not available at this time.

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

N/A = Not applicable

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TABLE E-2E
INACTIVE FLYASH PILE
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN SURFACE WATER
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	RESULTS	VAL QUAL	BACKGROUND UNITS
METALS								
IFP-SW-02	111828	-	26-APR-93	Aluminum	FLTR	.131 -		0 mg/L
IFP-SW-02	111828	-	26-APR-93	Barium	FLTR	.041 -		0 mg/L
IFP-SW-02	111828	-	26-APR-93	Calcium	FLTR	82.600 J		0 mg/L
IFP-SW-02	111828	-	26-APR-93	Iron	FLTR	.073 -		0 mg/L
IFP-SW-02	111828	-	26-APR-93	Manganese	FLTR	.023 -		0 mg/L
IFP-SW-02	111828	-	26-APR-93	Silicon	FLTR	5.760 -		0 mg/L
IFP-SW-02	111828	-	26-APR-93	Sodium	FLTR	2.720 J		0 mg/L
IFP-SW-02	111828	-	26-APR-93	Potassium	FLTR	1.830 -		0 mg/L
IFP-SW-02	111828	-	26-APR-93	Magnesium	FLTR	24.800 J		0 mg/L
IFP-SW-02	112022	-	30-APR-93	Aluminum	FLTR	.083 -		0 mg/L
IFP-SW-02	112022	-	30-APR-93	Barium	FLTR	.066 J		0 mg/L
IFP-SW-02	112022	-	30-APR-93	Magnesium	FLTR	45.700 -		0 mg/L
IFP-SW-02	112022	-	30-APR-93	Sodium	FLTR	6.010 -		0 mg/L
IFP-SW-02	112022	-	30-APR-93	Silicon	FLTR	7.040 -		0 mg/L
IFP-SW-02	112022	-	30-APR-93	Selenium	FLTR	.004 -		0 mg/L
IFP-SW-02	112022	-	30-APR-93	Potassium	FLTR	1.740 -		0 mg/L
IFP-SW-02	112022	-	30-APR-93	Manganese	FLTR	.013 -		0 mg/L
IFP-SW-02	112022	-	30-APR-93	Arsenic	FLTR	.001 -		0 mg/L
IFP-SW-02	112022	-	30-APR-93	Calcium	FLTR	132.000 -		0 mg/L
IFP-SW-03	111819	-	21-APR-93	Barium	FLTR	.038 -		0 mg/L
IFP-SW-03	111819	-	21-APR-93	Sodium	FLTR	12.500 J		0 mg/L
IFP-SW-03	111819	-	21-APR-93	Silicon	FLTR	1.310 -		0 mg/L
IFP-SW-03	111819	-	21-APR-93	Potassium	FLTR	1.930 -		0 mg/L
IFP-SW-03	111819	-	21-APR-93	Manganese	FLTR	.029 -		0 mg/L
IFP-SW-03	111819	-	21-APR-93	Calcium	FLTR	90.000 J		0 mg/L
IFP-SW-03	111819	-	21-APR-93	Magnesium	FLTR	23.400 J		0 mg/L
IFP-SW-03	112027	-	01-MAY-93	Aluminum	FLTR	.051 -		0 mg/L
IFP-SW-03	112027	-	01-MAY-93	Calcium	FLTR	88.000 -		0 mg/L
IFP-SW-03	112027	-	01-MAY-93	Barium	FLTR	.042 J		0 mg/L
IFP-SW-03	112027	-	01-MAY-93	Sodium	FLTR	12.200 -		0 mg/L
IFP-SW-03	112027	-	01-MAY-93	Silicon	FLTR	1.080 -		0 mg/L
IFP-SW-03	112027	-	01-MAY-93	Potassium	FLTR	1.780 -		0 mg/L
IFP-SW-03	112027	-	01-MAY-93	Manganese	FLTR	.017 -		0 mg/L

See footnotes at end of table

TABLE E-2E
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
METALS (Continued)								
IFP-SW-03	112027	-	01-MAY-93	Magnesium	FLTR	23.200	-	0 mg/L
IFP-SW-04	111820	-	21-APR-93	Barium	UNFL	.037	-	0 mg/L
IFP-SW-04	111820	-	21-APR-93	Magnesium	UNFL	23.800	J	0 mg/L
IFP-SW-04	111820	-	21-APR-93	Sodium	UNFL	12.800	J	0 mg/L
IFP-SW-04	111820	-	21-APR-93	Calcium	UNFL	89.900	J	0 mg/L
IFP-SW-04	111820	-	21-APR-93	Cyanide	UNFL	.004	-	0 mg/L
IFP-SW-04	111820	-	21-APR-93	Zinc	UNFL	.015	-	0 mg/L
IFP-SW-04	111820	-	21-APR-93	Silicon	UNFL	1.300	-	0 mg/L
IFP-SW-04	111820	-	21-APR-93	Potassium	UNFL	1.930	-	0 mg/L
IFP-SW-04	111820	-	21-APR-93	Manganese	UNFL	.027	-	0 mg/L
IFP-SW-04	112015	-	29-APR-93	Aluminum	FLTR	.048	-	0 mg/L
IFP-SW-04	112015	-	29-APR-93	Magnesium	FLTR	22.700	-	0 mg/L
IFP-SW-04	112015	-	29-APR-93	Calcium	FLTR	85.500	-	0 mg/L
IFP-SW-04	112015	-	29-APR-93	Cyanide	UNFL	.001	-	0 mg/L
IFP-SW-04	112015	-	29-APR-93	Barium	FLTR	.042	J	0 mg/L
IFP-SW-04	112015	-	29-APR-93	Sodium	FLTR	11.800	-	0 mg/L
IFP-SW-04	112015	-	29-APR-93	Silicon	FLTR	1.660	-	0 mg/L
IFP-SW-04	112015	-	29-APR-93	Potassium	FLTR	1.800	-	0 mg/L
IFP-SW-04	112015	-	29-APR-93	Manganese	FLTR	.017	-	0 mg/L
RADIONUCLIDES								
IFP-SW-02	111828	-	26-APR-93	GROSS ALPHA	UNFL	72.900	J	0 pCi/L
IFP-SW-02	111828	-	26-APR-93	U-238	UNFL	59.700	-	0 pCi/L
IFP-SW-02	111828	-	26-APR-93	U-235/236	UNFL	2.900	-	0 pCi/L
IFP-SW-02	111828	-	26-APR-93	U-TOTAL	UNFL	165.000	-	0 ug/L
IFP-SW-02	111828	-	26-APR-93	GROSS BETA	UNFL	51.300	J	0 pCi/L
IFP-SW-02	111828	-	26-APR-93	RÄ-226	UNFL	.148	J	0 pCi/L
IFP-SW-02	111828	-	26-APR-93	TH-230	UNFL	.653	J	0 pCi/L
IFP-SW-02	111828	-	26-APR-93	U-234	UNFL	61.000	-	0 pCi/L
IFP-SW-02	112022	-	30-APR-93	GROSS ALPHA	UNFL	426.000	J	0 pCi/L
IFP-SW-02	112022	-	30-APR-93	PU-239/240	UNFL	.200	J	0 pCi/L
IFP-SW-02	112022	-	30-APR-93	GROSS BETA	UNFL	172.000	J	0 pCi/L
IFP-SW-02	112022	-	30-APR-93	U-TOTAL	UNFL	820.000	-	0 ug/L
IFP-SW-02	112022	-	30-APR-93	U-238	UNFL	257.000	-	0 pCi/L
IFP-SW-02	112022	-	30-APR-93	U-235/236	UNFL	14.000	-	0 pCi/L
IFP-SW-02	112022	-	30-APR-93	U-234	UNFL	265.000	-	0 pCi/L
IFP-SW-02	112022	-	30-APR-93	TH-230	UNFL	.340	J	0 pCi/L
IFP-SW-02	112022	-	30-APR-93	NP-237	UNFL	.790	N	0 pCi/L
IFP-SW-02	112022	-	30-APR-93	PU-238	UNFL	2.910	-	0 pCi/L
IFP-SW-03	111819	-	21-APR-93	GROSS BETA	UNFL	8.560	-	0 pCi/L
IFP-SW-03	111819	-	21-APR-93	NP-237	UNFL	.435	N	0 pCi/L

See footnotes at end of table

TABLE E-2E
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	RESULTS	VAL	QUAL	BACKGROUND	UNITS
RADIONUCLIDES (Continued)										
IFP-SW-03	111819	-	21-APR-93	U-234	UNFL	2.320	-	0	pCi/L	
IFP-SW-03	111819	-	21-APR-93	U-TOTAL	UNFL	5.250	-	0	ug/L	
IFP-SW-03	111819	-	21-APR-93	U-238	UNFL	1.740	-	0	pCi/L	
IFP-SW-03	112027	-	01-MAY-93	PU-238	UNFL	.170	J	0	pCi/L	
IFP-SW-03	112027	-	01-MAY-93	TH-230	UNFL	.320	J	0	pCi/L	
IFP-SW-03	112027	-	01-MAY-93	U-TOTAL	UNFL	5.030	-	0	ug/L	
IFP-SW-03	112027	-	01-MAY-93	U-238	UNFL	2.130	-	0	pCi/L	
IFP-SW-03	112027	-	01-MAY-93	U-234	UNFL	1.760	-	0	pCi/L	
IFP-SW-03	112027	-	01-MAY-93	PU-239/240	UNFL	.250	J	0	pCi/L	
IFP-SW-03	112027	-	01-MAY-93	TH-228	UNFL	.027	J	0	pCi/L	
IFP-SW-04	111820	-	21-APR-93	TH-230	UNFL	.260	-	0	pCi/L	
IFP-SW-04	111820	-	21-APR-93	U-234	UNFL	2.350	J	0	pCi/L	
IFP-SW-04	111820	-	21-APR-93	U-235/236	UNFL	.160	J	0	pCi/L	
IFP-SW-04	111820	-	21-APR-93	U-TOTAL	UNFL	5.870	-	0	ug/L	
IFP-SW-04	111820	-	21-APR-93	U-238	UNFL	2.260	J	0	pCi/L	
IFP-SW-04	112015	-	29-APR-93	PU-239/240	UNFL	.266	J	0	pCi/L	
IFP-SW-04	112015	-	29-APR-93	TH-230	UNFL	.433	J	0	pCi/L	
IFP-SW-04	112015	-	29-APR-93	U-TOTAL	UNFL	4.570	-	0	ug/L	
IFP-SW-04	112015	-	29-APR-93	U-238	UNFL	1.840	-	0	pCi/L	
IFP-SW-04	112015	-	29-APR-93	U-234	UNFL	1.420	-	0	pCi/L	
VOLATILE ORGANICS										
IFP-SW-02	111828	-	26-APR-93	Toluene	UNFL	2.000	J	0	ug/L	
SEMOVOLATILE ORGANICS										
IFP-SW-02	111828	-	26-APR-93	bis(2-Ethylhexyl) phthalate	UNFL	1.000	J	0	ug/L	
GENERAL CHEMISTRY										
IFP-SW-02	111828	-	26-APR-93	Ammonia	UNFL	.130	-	0	mg/L	
IFP-SW-02	111828	-	26-APR-93	Total Organic Nitrogen	UNFL	.770	-	0	mg/L	
IFP-SW-02	111828	-	26-APR-93	Total Organic Halides	UNFL	.011	-	0	mg/L	
IFP-SW-02	111828	-	26-APR-93	Total Organic Carbon	UNFL	5.770	-	0	mg/L	
IFP-SW-02	111828	-	26-APR-93	Total Kjeldahl Nitrogen	UNFL	.900	-	0	mg/L	
IFP-SW-02	111828	-	26-APR-93	Sulfate	UNFL	67.000	-	0	mg/L	
IFP-SW-02	111828	-	26-APR-93	Nitrate	UNFL	.140	J	0	mg/L	
IFP-SW-02	111828	-	26-APR-93	Chloride	UNFL	2.330	-	0	mg/L	
IFP-SW-02	111828	-	26-APR-93	Fluoride	UNFL	.230	-	0	mg/L	
IFP-SW-02	112022	-	30-APR-93	Chloride	UNFL	4.630	-	0	mg/L	
IFP-SW-02	112022	-	30-APR-93	Total Kjeldahl Nitrogen	UNFL	.180	-	0	mg/L	
IFP-SW-02	112022	-	30-APR-93	Total Organic Nitrogen	UNFL	.180	-	0	mg/L	

See footnotes at end of table

TABLE E-2E
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	BACKGROUND	UNITS
GENERAL CHEMISTRY (Continued)									
IFP-SW-02	112022	-	30-APR-93	Total Organic Carbon	UNFL	2.140	-	0	mg/L
IFP-SW-02	112022	-	30-APR-93	Fluoride	UNFL	.390	-	0	mg/L
IFP-SW-02	112022	-	30-APR-93	Sulfate	UNFL	133.900	-	0	mg/L
IFP-SW-03	111819	-	21-APR-93	Chloride	UNFL	25.720	-	0	mg/L
IFP-SW-03	111819	-	21-APR-93	Total Organic Nitrogen	UNFL	.210	-	0	mg/L
IFP-SW-03	111819	-	21-APR-93	Total Organic Carbon	UNFL	2.500	-	0	mg/L
IFP-SW-03	111819	-	21-APR-93	Total Kjeldahl Nitrogen	UNFL	.210	-	0	mg/L
IFP-SW-03	111819	-	21-APR-93	Sulfate	UNFL	62.900	-	0	mg/L
IFP-SW-03	111819	-	21-APR-93	Fluoride	UNFL	.200	-	0	mg/L
IFP-SW-03	112027	-	01-MAY-93	Chloride	UNFL	23.650	-	0	mg/L
IFP-SW-03	112027	-	01-MAY-93	Total Organic Carbon	UNFL	1.980	-	0	mg/L
IFP-SW-03	112027	-	01-MAY-93	Total Kjeldahl Nitrogen	UNFL	.320	-	0	mg/L
IFP-SW-03	112027	-	01-MAY-93	Sulfate	UNFL	77.400	-	0	mg/L
IFP-SW-03	112027	-	01-MAY-93	Fluoride	UNFL	.210	-	0	mg/L
IFP-SW-04	111820	-	21-APR-93	Chloride	UNFL	25.400	-	0	mg/L
IFP-SW-04	111820	-	21-APR-93	Fluoride	UNFL	.190	-	0	mg/L
IFP-SW-04	111820	-	21-APR-93	Nitrate	UNFL	1.640	J	0	mg/L
IFP-SW-04	111820	-	21-APR-93	Phosphorus	UNFL	.060	-	0	mg/L
IFP-SW-04	111820	-	21-APR-93	Total Kjeldahl Nitrogen	UNFL	.280	-	0	mg/L
IFP-SW-04	111820	-	21-APR-93	Total Organic Nitrogen	UNFL	.280	-	0	mg/L
IFP-SW-04	111820	-	21-APR-93	Total Organic Carbon	UNFL	3.000	-	0	mg/L
IFP-SW-04	111820	-	21-APR-93	Sulfate	UNFL	73.200	-	0	mg/L
IFP-SW-04	112015	-	29-APR-93	Chloride	UNFL	23.600	-	0	mg/L
IFP-SW-04	112015	-	29-APR-93	Nitrate	UNFL	1.570	J	0	mg/L
IFP-SW-04	112015	-	29-APR-93	Sulfate	UNFL	66.700	-	0	mg/L
IFP-SW-04	112015	-	29-APR-93	Total Organic Nitrogen	UNFL	.430	-	0	mg/L
IFP-SW-04	112015	-	29-APR-93	Total Organic Carbon	UNFL	2.290	-	0	mg/L
IFP-SW-04	112015	-	29-APR-93	Total Kjeldahl Nitrogen	UNFL	.430	-	0	mg/L
IFP-SW-04	112015	-	29-APR-93	Phosphorus	UNFL	.050	-	0	mg/L
IFP-SW-04	112015	-	29-APR-93	Fluoride	UNFL	.210	-	0	mg/L

^aZero background concentration has been used for surface water. Background data for surface water is not available at this time.

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

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000052

TABLE E-2F
INACTIVE FLYASH PILE
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND IN SEDIMENT
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL	QUAL	BACKGROUND UNITS
METALS								
W-11	009145	-	12-JAN-89	Cadmium	4.500	-		.77 mg/kg
W-11	009145	-	12-JAN-89	Calcium	110000.000	-		5296.781 mg/kg
W-11	009145	-	12-JAN-89	Chromium	17.400	-		17.057 mg/kg
W-11	009145	-	12-JAN-89	Magnesium	26600.000	-		1460 mg/kg
W-11	009145	-	12-JAN-89	Sodium	188.000	J		55.145 mg/kg
RADIOMNUCLIDES								
ASIT-008	009048	-	27-JUN-88	U-TOTAL	13.900	J		3.24 mg/kg
ASIT-009	009049	-	27-JUN-88	U-TOTAL	5.380	J		3.24 mg/kg

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000053

TABLE E-2G
INACTIVE FLYASH PILE
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND IN SEDIMENT
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
METALS							
IFP-SD-02	111812	. - .5	17-APR-93	Calcium	111000.000	-	5296.781 mg/kg
IFP-SD-02	111812	- .5	17-APR-93	Magnesium	29600.000	-	1460 mg/kg
IFP-SD-02	111812	- .5	17-APR-93	Sodium	150.000	-	55.145 mg/kg
IFP-SD-02	112021	0 - .5	30-APR-93	Calcium	105000.000	J	5296.781 mg/kg
IFP-SD-02	112021	0 - .5	30-APR-93	Sodium	175.000	-	55.145 mg/kg
IFP-SD-02	112021	0 - .5	30-APR-93	Magnesium	22500.000	-	1460 mg/kg
IFP-SD-03	111813	0 - .5	17-APR-93	Calcium	191000.000	-	5296.781 mg/kg
IFP-SD-03	111813	0 - .5	17-APR-93	Magnesium	29800.000	-	1460 mg/kg
IFP-SD-03	111813	0 - .5	17-APR-93	Sodium	157.000	-	55.145 mg/kg
IFP-SD-03	116219	-	01-MAY-93	Beryllium	1.200	-	.6 mg/kg
IFP-SD-03	116219	-	01-MAY-93	Sodium	172.000	J	55.145 mg/kg
IFP-SD-03	116219	-	01-MAY-93	Magnesium	21300.000	J	1460 mg/kg
IFP-SD-03	116219	-	01-MAY-93	Calcium	93700.000	-	5296.781 mg/kg
IFP-SD-04	111815	0 - .5	17-APR-93	Calcium	75200.000	-	5296.781 mg/kg
IFP-SD-04	111815	0 - .5	17-APR-93	Sodium	130.000	-	55.145 mg/kg
IFP-SD-04	111815	0 - .5	17-APR-93	Magnesium	17700.000	-	1460 mg/kg
IFP-SD-04	112017	0 - .5	29-APR-93	Calcium	56000.000	J	5296.781 mg/kg
IFP-SD-04	112017	0 - .5	29-APR-93	Sodium	120.000	-	55.145 mg/kg
IFP-SD-04	112017	0 - .5	29-APR-93	Magnesium	13500.000	-	1460 mg/kg
RADIOMUCLIDES							
IFP-SD-02	111812	- .5	17-APR-93	GROSS ALPHA	15.600	-	0 pCi/g
IFP-SD-02	111812	- .5	17-APR-93	U-TOTAL	12.000	J	3.24 mg/kg
IFP-SD-02	111812	- .5	17-APR-93	U-238	1.680	-	1.27 pCi/g
IFP-SD-02	111812	- .5	17-APR-93	U-234	1.500	-	1.319 pCi/g
IFP-SD-02	111812	- .5	17-APR-93	SR-90	.480	J	0 pCi/g
IFP-SD-02	111812	- .5	17-APR-93	PU-239/240	.030	J	0 pCi/g
IFP-SD-02	111812	- .5	17-APR-93	GROSS BETA	17.600	-	0 pCi/g
IFP-SD-02	112021	0 - .5	30-APR-93	GROSS ALPHA	15.200	J	0 pCi/g
IFP-SD-02	112021	0 - .5	30-APR-93	PU-238	.019	J	0 pCi/g
IFP-SD-02	112021	0 - .5	30-APR-93	NP-237	.019	N	0 pCi/g
IFP-SD-02	112021	0 - .5	30-APR-93	U-TOTAL	12.300	J	3.24 mg/kg
IFP-SD-02	112021	0 - .5	30-APR-93	GROSS BETA	16.300	J	0 pCi/g
IFP-SD-03	116219	-	01-MAY-93	GROSS ALPHA	16.640	-	0 pCi/g
IFP-SD-03	116219	-	01-MAY-93	PU-238	.043	J	0 pCi/g
IFP-SD-03	116219	-	01-MAY-93	U-TOTAL	4.090	-	3.24 mg/kg

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000054

TABLE E-2G
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
<u>RADIONUCLIDS (Continued)</u>							
IFP-SD-03	116219	-	01-MAY-93	NP-237	.171 N		0 pCi/g
IFP-SD-03	116219	-	01-MAY-93	GROSS BETA	21.440 -		0 pCi/g
IFP-SD-04	112017	0 - .5	29-APR-93	GROSS ALPHA	14.000 J		0 pCi/g
IFP-SD-04	112017	0 - .5	29-APR-93	PU-239/240	.057 J		0 pCi/g
IFP-SD-04	112017	0 - .5	29-APR-93	U-TOTAL	9.900 J	3.24	mg/kg
IFP-SD-04	112017	0 - .5	29-APR-93	PU-238	.050 J		0 pCi/g
IFP-SD-04	112017	0 - .5	29-APR-93	NP-237	.110 N		0 pCi/g
IFP-SD-04	112017	0 - .5	29-APR-93	GROSS BETA	16.800 J		0 pCi/g
<u>VOLATILE ORGANICS</u>							
IFP-SD-03	116219	-	01-MAY-93	Toluene	35.000 -		0 ug/kg
IFP-SD-04	111815	0 - .5	17-APR-93	Acetone	12.000 J		0 ug/kg
IFP-SD-04	112017	0 - .5	29-APR-93	Acetone	22.000 -		0 ug/kg
<u>SEMITOLATILE ORGANICS</u>							
IFP-SD-02	111812	- .5	17-APR-93	Benzo(a)pyrene	9.000 J		0 ug/kg
IFP-SD-02	111812	- .5	17-APR-93	Carbazole	7.000 J		0 ug/kg
IFP-SD-02	111812	- .5	17-APR-93	Di-n-octyl phthalate	2.000 J		0 ug/kg
IFP-SD-02	111812	- .5	17-APR-93	Phenol	24.000 J		0 ug/kg
IFP-SD-02	111812	- .5	17-APR-93	bis(2-Ethylhexyl) phthalate	59.000 J		0 ug/kg
IFP-SD-02	112021	0 - .5	30-APR-93	bis(2-Ethylhexyl) phthalate	1200.000 -		0 ug/kg
IFP-SD-03	111813	0 - .5	17-APR-93	Benzo(g,h,i)perylene	130.000 J		0 ug/kg
IFP-SD-03	111813	0 - .5	17-APR-93	Fluoranthene	66.000 J		0 ug/kg
IFP-SD-03	111813	0 - .5	17-APR-93	bis(2-Ethylhexyl) phthalate	51.000 J		0 ug/kg
IFP-SD-03	111813	0 - .5	17-APR-93	Pyrene	47.000 J		0 ug/kg
IFP-SD-03	116219	-	01-MAY-93	4-Methylphenol	310.000 J		0 ug/kg
IFP-SD-03	116219	-	01-MAY-93	Benzoic acid	45.000 J		0 ug/kg
IFP-SD-03	116219	-	01-MAY-93	bis(2-Ethylhexyl) phthalate	2200.000 -		0 ug/kg
IFP-SD-04	111815	0 - .5	17-APR-93	4-Methylphenol	190.000 J		0 ug/kg
IFP-SD-04	111815	0 - .5	17-APR-93	Benzo(k)fluoranthene	53.000 J		0 ug/kg
IFP-SD-04	111815	0 - .5	17-APR-93	Benzo(g,h,i)perylene	38.000 J		0 ug/kg
IFP-SD-04	111815	0 - .5	17-APR-93	Benzo(b)fluoranthene	39.000 J		0 ug/kg
IFP-SD-04	111815	0 - .5	17-APR-93	Chrysene	61.000 J		0 ug/kg
IFP-SD-04	111815	0 - .5	17-APR-93	Diethyl phthalate	14.000 J		0 ug/kg
IFP-SD-04	111815	0 - .5	17-APR-93	Fluorene	7.000 J		0 ug/kg
IFP-SD-04	111815	0 - .5	17-APR-93	Phenanthrene	67.000 J		0 ug/kg
IFP-SD-04	111815	0 - .5	17-APR-93	Indeno(1,2,3-cd)pyrene	35.000 J		0 ug/kg
IFP-SD-04	111815	0 - .5	17-APR-93	bis(2-Ethylhexyl) phthalate	70.000 J		0 ug/kg
IFP-SD-04	111815	0 - .5	17-APR-93	Pyrene	100.000 J		0 ug/kg
IFP-SD-04	111815	0 - .5	17-APR-93	Phenol	42.000 J		0 ug/kg
IFP-SD-04	111815	0 - .5	17-APR-93	Fluoranthene	120.000 J		0 ug/kg
IFP-SD-04	111815	0 - .5	17-APR-93	Di-n-octyl phthalate	7.000 J		0 ug/kg
IFP-SD-04	111815	0 - .5	17-APR-93	Carbazole	7.000 J		0 ug/kg

TABLE E-2G
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
<u>SEMIVOLATILE ORGANICS (Continued)</u>							
IFP-SD-04	111815	0 - .5	17-APR-93	Anthracene	67.000	J	0 ug/kg
IFP-SD-04	111815	0 - .5	17-APR-93	Benzo(a)pyrene	60.000	J	0 ug/kg
IFP-SD-04	111815	0 - .5	17-APR-93	Benzo(a)anthracene	48.000	J	0 ug/kg
IFP-SD-04	112017	0 - .5	29-APR-93	bis(2-Ethylhexyl) phthalate	700.000	-	0 ug/kg

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000056

TABLE E-2H
INACTIVE FLYASH PILE
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN GROUNDWATER - 1000 SERIES
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	RESULTS	VAL QUAL	BACKGROUND UNITS
METALS								
1047	003102	-	20-APR-88	Magnesium	FLTR	50.800	-	49.627 mg/L
1047	003855	-	22-JAN-89	Cadmium	FLTR	.009	-	.007 mg/L
1047	003855	-	22-JAN-89	Magnesium	FLTR	53.800	-	49.627 mg/L
1711	047005	-	11-JUN-92	Calcium	FLTR	233.000	-	125.574 mg/L
1711	047005	-	11-JUN-92	Cobalt	FLTR	.028	-	0 mg/L
1711	047005	-	11-JUN-92	Iron	FLTR	11.300	-	10.965 mg/L
1711	047005	-	11-JUN-92	Manganese	FLTR	3.760	-	.165 mg/L
1711	047005	-	11-JUN-92	Nickel	FLTR	2.430	-	.026 mg/L
1711	047005	-	11-JUN-92	Silicon	FLTR	19.200	-	0 mg/L
1711	047005	-	11-JUN-92	Potassium	FLTR	34.000	-	29.736 mg/L
1711	047005	-	11-JUN-92	Thallium	FLTR	.422 J	-	0 mg/L
1711	047005	-	11-JUN-92	Sodium	FLTR	59.500	-	49.178 mg/L
1711	047005	-	11-JUN-92	Molybdenum	FLTR	.088	-	.028 mg/L
1711	047009	-	19-JUN-92	Calcium	UNKN	213.000	-	125.574 mg/L
1711	047009	-	19-JUN-92	Cobalt	UNKN	.073	-	0 mg/L
1711	047009	-	19-JUN-92	Iron	UNKN	25.500	-	10.965 mg/L
1711	047009	-	19-JUN-92	Molybdenum	UNKN	.147	-	.028 mg/L
1711	047009	-	19-JUN-92	Silicon	UNKN	20.100	-	0 mg/L
1711	047009	-	19-JUN-92	Nickel	UNKN	1.020	-	.026 mg/L
1711	047009	-	19-JUN-92	Thallium	UNKN	.435 J	-	0 mg/L
1711	047009	-	19-JUN-92	Manganese	UNKN	3.850	-	.165 mg/L
RADIONUCLIDES								
1047	003102	-	20-APR-88	U-234	*U	3.700 J	-	1.9 pCi/L
1047	003102	-	20-APR-88	U-238	*U	2.500 J	-	1.07 pCi/L
1047	003369	-	24-JUL-88	TH-TOTAL	*U	5.000 J	-	3 ug/L
1047	003369	-	24-JUL-88	U-234	*U	7.400 J	-	1.9 pCi/L
1047	003369	-	24-JUL-88	U-238	*U	3.200 J	-	1.07 pCi/L
1047	003369	-	24-JUL-88	U-TOTAL	*U	9.000	-	4 ug/L
1047	003648	-	23-OCT-88	TH-228	UNKN	1.100	-	1.04 pCi/L
1047	003648	-	23-OCT-88	TH-232	UNKN	1.100 J	-	0 pCi/L
1047	003648	-	23-OCT-88	TH-TOTAL	UNKN	10.000	-	3 ug/L

See footnotes at end of table

TABLE E-2H
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)								
1047	003648	-	23-OCT-88	U-234	UNKN	7.300 J	1.9	pCi/L
1047	003648	-	23-OCT-88	U-238	UNKN	3.600 J	1.07	pCi/L
1047	003855	-	22-JAN-89	U-234	*U	3.700 -	1.9	pCi/L
1047	003855	-	22-JAN-89	U-238	*U	2.100 -	1.07	pCi/L
1047	003855	-	22-JAN-89	U-TOTAL	*U	6.000 -	4	ug/L
1047	066830	-	12-DEC-89	U-234	UNKN	3.990 -	1.9	pCi/L
1047	066830	-	12-DEC-89	U-TOTAL	UNKN	10.300 -	4	ug/L
1047	066830	-	12-DEC-89	U-238	UNKN	2.810 -	1.07	pCi/L
GENERAL CHEMISTRY								
1047	003855	-	22-JAN-89	Phosphorus	UNFL	.400 -	.223	mg/L
1047	003855	-	22-JAN-89	Sulfate	UNFL	180.000 -	141.894	mg/L
1047	003855	-	22-JAN-89	Total Kjeldahl Nitrogen	UNFL	.200 -	0	mg/L
1047	003855	-	22-JAN-89	Total Organic Nitrogen	UNFL	.200 -	0	mg/L

^aBackground concentrations established for metals are filtered while all other background parameters are unfiltered

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

UNKN = Unknown; filtered status could not be determined.

*U = Unfiltered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.

TABLE E-2I
INACTIVE FLYASH PILE
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN GROUNDWATER - 1000 SERIES
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
METALS								
1047	110892	-	27-APR-93	Magnesium	FLTR	50.600	-	49.627 mg/L
1047	110892	-	27-APR-93	Silicon	FLTR	6.220	-	0 mg/L
RADIONUCLIDES								
1047	110892	-	27-APR-93	RA-228	UNFL	5.930	J	5.2 pCi/L
1047	110892	-	27-APR-93	U-TOTAL	UNFL	5.360	-	4 ug/L
1047	110892	-	27-APR-93	U-238	UNFL	1.620	-	1.07 pCi/L
1047	110892	-	27-APR-93	U-234	UNFL	2.330	-	1.9 pCi/L
GENERAL CHEMISTRY								
1047	110892	-	27-APR-93	Phosphorus	UNFL	.640	-	.223 mg/kg
1047	110892	-	27-APR-93	Sulfate	UNFL	166.900	-	141.894 mg/kg
1047	110892	-	27-APR-93	Total Kjeldahl Nitrogen	UNFL	.410	-	0 mg/kg
1047	110892	-	27-APR-93	Total Organic Carbon	UNFL	1.190	-	0 mg/kg
1047	110892	-	27-APR-93	Total Organic Nitrogen	UNFL	.410	-	0 mg/kg

^aBackground concentrations established for metals are filtered while all other background parameters are unfiltered

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

TABLE E-2J
INACTIVE FLYASH PILE
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN GROUNDWATER - 2000 SERIES
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
METALS								
1016	003062	-	28-MAR-88	Calcium	UNKN	198.000	-	135.163 mg/L
1016	003906	-	26-FEB-89	Calcium	FLTR	180.000	-	135.163 mg/L
2016	004152	-	26-JUL-89	Aluminum	UNKN	.374	-	.184 mg/L
2016	004213	-	04-MAR-90	Aluminum	FLTR	.279	-	.184 mg/L
2016	004213	-	04-MAR-90	Chromium	FLTR	.127	-	.042 mg/L
RADIOMUCLIDES								
1016	003906	-	26-FEB-89	U-234	*U	2.500	-	1.9 pCi/L
1016	003906	-	26-FEB-89	U-238	*U	2.600	-	.9 pCi/L
1016	003906	-	26-FEB-89	U-TOTAL	*U	9.000 J	-	2.92 ug/L
2016	003063	-	28-MAR-88	U-234	*U	7.700 J	-	1.9 pCi/L
2016	003063	-	28-MAR-88	U-238	*U	6.200 J	-	.9 pCi/L
2016	003434	-	03-AUG-88	U-234	*U	5.300 J	-	1.9 pCi/L
2016	003434	-	03-AUG-88	U-238	*U	6.400 J	-	.9 pCi/L
2016	003434	-	03-AUG-88	U-TOTAL	*U	18.000	-	2.92 ug/L
2016	003685	-	04-NOV-88	U-234	*U	4.600	-	1.9 pCi/L
2016	003685	-	04-NOV-88	U-238	*U	5.600 J	-	.9 pCi/L
2016	003685	-	04-NOV-88	U-TOTAL	*U	17.000	-	2.92 ug/L
2016	003883	-	07-FEB-89	U-234	*U	6.600	-	1.9 pCi/L
2016	003883	-	07-FEB-89	U-TOTAL	*U	22.000 J	-	2.92 ug/L
2016	003883	-	07-FEB-89	U-238	*U	8.000	-	.9 pCi/L
2016	004152	-	26-JUL-89	U-234	UNKN	5.100	-	1.9 pCi/L
2016	004152	-	26-JUL-89	U-TOTAL	UNKN	17.000	-	2.92 ug/L
2016	004152	-	26-JUL-89	U-238	N/A	5.800	-	.9 pCi/L
2016	004213	-	04-MAR-90	U-234	*U	4.280	-	1.9 pCi/L
2016	004213	-	04-MAR-90	U-238	*U	5.030	-	.9 pCi/L
2016	004213	-	04-MAR-90	U-TOTAL	*U	29.400 J	-	2.92 ug/L
2047	003998	-	22-JAN-89	U-234	*U	5.100	-	1.9 pCi/L
2047	003998	-	22-JAN-89	U-TOTAL	*U	15.000	-	2.92 ug/L
2047	003998	-	22-JAN-89	U-238	*U	4.500	-	.9 pCi/L
2047	004093	-	02-MAY-89	U-234	*U	3.200	-	1.9 pCi/L
2047	004093	-	02-MAY-89	U-238	*U	3.400	-	.9 pCi/L
2047	004093	-	02-MAY-89	U-TOTAL	*U	10.000	-	2.92 ug/L

See footnotes at end of table

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TABLE E-2J
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	VAL BACKGROUND UNITS
<u>RADIONUCLIDES (Continued)</u>								
2047	004160	-	28-JUL-89	U-234	*U	3.700	-	1.9 pCi/L
2047	004160	-	28-JUL-89	U-TOTAL	*U	9.000	-	2.92 ug/L
2047	004160	-	28-JUL-89	U-238	*U	3.800	-	.9 pCi/L
2047	004220	-	03-APR-90	U-234	UNKN	4.720	J	1.9 pCi/L
2047	004220	-	03-APR-90	U-238	UNKN	4.660	J	.9 pCi/L
2047	004220	-	03-APR-90	U-TOTAL	UNKN	13.800	-	2.92 ug/L
2402	038304	-	28-JAN-92	U-234	U	7.730	-	1.9 pCi/L
2402	038304	-	28-JAN-92	U-238	UNKN	9.970	-	.9 pCi/L
2402	038304	-	28-JAN-92	U-TOTAL	UNKN	27.300	-	2.92 ug/L
<u>VOLATILE ORGANICS</u>								
1016	003062	-	28-MAR-88	1,1,1-Trichloroethane	UNFL	2.000	J	0 ug/L
<u>SEMITOLATILE ORGANICS</u>								
2016	003063	-	28-MAR-88	bis(2-Ethylhexyl) phthalate	UNFL	4.000	J	0 ug/L
<u>GENERAL CHEMISTRY</u>								
1016	003906	-	26-FEB-89	Total Kjeldahl Nitrogen	UNFL	1.200	-	0 mg/L
1016	003906	-	26-FEB-89	Total Organic Halides	UNFL	.070	-	.021 mg/L
1016	003906	-	26-FEB-89	Total Organic Nitrogen	UNFL	.900	-	.652 mg/L
2016	003685	-	04-NOV-88	Total Kjeldahl Nitrogen	UNFL	.600	J	0 mg/L
2016	003883	-	07-FEB-89	Total Kjeldahl Nitrogen	UNFL	.181	J	0 mg/L
2047	004093	-	02-MAY-89	Phosphorus	UNFL	.758	-	.693 mg/L
2047	004093	-	02-MAY-89	Total Organic Halides	UNFL	.033	-	.021 mg/L
2047	004093	-	02-MAY-89	Total Kjeldahl Nitrogen	UNFL	.411	-	0 mg/L
2047	004160	-	28-JUL-89	Total Kjeldahl Nitrogen	UNFL	.160	-	0 mg/L

^aBackground concentrations established for metals are filtered while all other background parameters are unfiltered

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

UNKN = Unknown; filtered status could not be determined.

*F = Filtered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.

*U = Unfiltered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.

N/A = Not applicable

TABLE E-2K
INACTIVE FLYASH PILE
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN GROUNDWATER - 2000 SERIES
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
METALS								
2016	111996	-	30-APR-93	Aluminum	UNFL	.366	-	.184 mg/L
2402	116225	-	05-MAY-93	Aluminum	UNFL	.676	-	.184 mg/L
RADIONUCLIDES								
2016	111996	-	30-APR-93	GROSS ALPHA	UNFL	6.990	J	0 pCi/L
2016	111996	-	30-APR-93	GROSS BETA	UNFL	9.340	J	0 pCi/L
2016	111996	-	30-APR-93	U-234	UNFL	6.020	-	1.9 pCi/L
2016	111996	-	30-APR-93	U-238	UNFL	6.500	-	.9 pCi/L
2016	111996	-	30-APR-93	U-TOTAL	UNFL	17.100	-	2.92 ug/L
2016	111996	-	30-APR-93	U-235/236	UNFL	.460	J	0 pCi/L
2016	111996	-	30-APR-93	NP-237	UNFL	.710	N	0 pCi/L
2016	111996	-	30-APR-93	PU-238	UNFL	.160	J	0 pCi/L
2016	111996	-	30-APR-93	TH-232	UNFL	.140	J	0 pCi/L
2047	110894	-	27-APR-93	GROSS BETA	FLTR	5.400	J	0 pCi/L
2047	110894	-	27-APR-93	U-TOTAL	FLTR	9.510	-	2.92 ug/L
2047	110894	-	27-APR-93	U-238	FLTR	3.380	-	.9 pCi/L
2047	110894	-	27-APR-93	U-234	FLTR	3.740	-	1.9 pCi/L
2047	110894	-	27-APR-93	U-235/236	FLTR	.150	J	0 pCi/L
2402	116225	-	05-MAY-93	GROSS ALPHA	UNFL	9.520	J	0 pCi/L
2402	116225	-	05-MAY-93	GROSS BETA	UNFL	7.930	J	0 pCi/L
2402	116225	-	05-MAY-93	U-TOTAL	UNFL	5.620	-	2.92 ug/L
2402	116225	-	05-MAY-93	U-238	UNFL	3.180	-	.9 pCi/L
2402	116225	-	05-MAY-93	U-235/236	UNFL	.150	J	0 pCi/L
2402	116225	-	05-MAY-93	U-234	UNFL	2.170	-	1.9 pCi/L
2402	116225	-	05-MAY-93	PU-239/240	UNFL	.060	J	0 pCi/L
2402	116225	-	05-MAY-93	NP-237	UNFL	.280	N	0 pCi/L
2402	116226	-	05-MAY-93	NP-237	FLTR	.300	N	0 pCi/L
2402	116226	-	05-MAY-93	U-TOTAL	FLTR	15.200	-	2.92 ug/L
2402	116226	-	05-MAY-93	U-238	FLTR	5.890	-	.9 pCi/L
2402	116226	-	05-MAY-93	U-235/236	FLTR	.160	-	0 pCi/L
2402	116226	-	05-MAY-93	U-234	FLTR	4.540	-	1.9 pCi/L
2955	113801	-	22-JUN-93	GROSS ALPHA	UNFL	6.970	J	0 pCi/L
2955	113801	-	22-JUN-93	GROSS BETA	UNFL	5.050	J	0 pCi/L

See footnotes at end of table

TABLE E-2K
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	RESULTS	VAL QUAL	BACKGROUND	UNITS
RADIONUCLIDES (Continued)									
2955	113801	-	22-JUN-93	U-235/236	UNFL	.698 J		0	pCi/L
2955	113801	-	22-JUN-93	U-TOTAL	FLTR	8.110 -		2.92	ug/L
2955	113801	-	22-JUN-93	U-TOTAL	UNFL	8.190 -		2.92	ug/L
2955	113801	-	22-JUN-93	U-238	FLTR	2.750 -		.9	pCi/L
2955	113801	-	22-JUN-93	U-238	UNFL	3.010 -		.9	pCi/L
2955	113801	-	22-JUN-93	U-234	UNFL	2.990 -		1.9	pCi/L
2955	113801	-	22-JUN-93	U-234	FLTR	2.570 -		1.9	pCi/L
2955	113801	-	22-JUN-93	GROSS BETA	FLTR	5.120 J		0	pCi/L
2955	113801	-	22-JUN-93	U-235/236	FLTR	.103 J		0	pCi/L
VOLATILE ORGANICS									
2402	116225	-	05-MAY-93	Carbon disulfide	UNFL	26.000 J		0	ug/L
2955	113801	-	22-JUN-93	1,1,1-Trichloroethane	UNFL	1.000 J		0	ug/L
SEMITOLATILE ORGANICS									
2955	113801	-	22-JUN-93	Butyl benzyl phthalate	UNFL	1.000 J		0	ug/L
GENERAL CHEMISTRY									
2016	111996	-	30-APR-93	Total Kjeldahl Nitrogen	UNFL	.120 -		0	mg/L
2402	116225	-	05-MAY-93	Total Kjeldahl Nitrogen	UNFL	3.010 -		0	mg/L
2402	116225	-	05-MAY-93	Total Organic Nitrogen	UNFL	2.900 -		.652	mg/L
2955	113801	-	22-JUN-93	Total Kjeldahl Nitrogen	UNFL	.120 -		0	mg/L

^aBackground concentrations established for metals are filtered while all other background parameters are unfiltered.

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

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TABLE E-2L
INACTIVE FLYASH PILE
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN GROUNDWATER - 3000 AND 4000 SERIES
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
<u>METALS</u>								
3016	003082	-	08-APR-88	Lead	FLTR	.050	-	.029 mg/L
4016	003996	-	20-JAN-89	Manganese	FLTR	1.020	-	.8 mg/L
4016	004090	-	01-MAY-89	Manganese	FLTR	.858	-	.8 mg/L
<u>RADIOMUCLIDES</u>								
3016	003082	-	08-APR-88	U-234	*U	5.300	J	1.9 pCi/L
3016	003082	-	08-APR-88	U-238	*U	4.400	J	.9 pCi/L
3016	003082	-	08-APR-88	U-TOTAL	*U	11.000	J	2.92 ug/L
3016	003435	-	03-AUG-88	U-234	*U	3.300	J	1.9 pCi/L
3016	003435	-	03-AUG-88	U-238	*U	3.500	J	.9 pCi/L
3016	003435	-	03-AUG-88	U-TOTAL	*U	9.000	-	2.92 ug/L
3016	003686	-	04-NOV-88	U-234	*U	3.300	-	1.9 pCi/L
3016	003686	-	04-NOV-88	U-238	*U	3.200	J	.9 pCi/L
3016	003686	-	04-NOV-88	U-TOTAL	*U	8.000	-	2.92 ug/L
3016	003882	-	07-FEB-89	U-234	*U	3.300	-	1.9 pCi/L
3016	003882	-	07-FEB-89	U-TOTAL	*U	7.000	J	2.92 ug/L
3016	003882	-	07-FEB-89	U-238	*U	2.900	-	.9 pCi/L
3016	004241	-	04-MAR-90	U-234	*U	3.050	-	1.9 pCi/L
3016	004241	-	04-MAR-90	U-TOTAL	*U	13.400	J	2.92 ug/L
3016	004241	-	04-MAR-90	U-238	*U	2.800	-	.9 pCi/L
<u>GENERAL CHEMISTRY</u>								
3016	003686	-	04-NOV-88	Total Kjeldahl Nitrogen	UNFL	.140	J	0 mg/L
3016	003882	-	07-FEB-89	Total Kjeldahl Nitrogen	UNFL	.202	J	0 mg/L
3402	038346	-	09-APR-92	Total Organic Carbon	UNKN	4.000	-	3.764 mg/L
3402	038346	-	09-APR-92	Total Organic Nitrogen	UNFL	1.000	J	.652 mg/L
4016	004090	-	01-MAY-89	Total Kjeldahl Nitrogen	UNFL	.172	-	0 mg/L

^aBackground concentrations established for metals are filtered while all other background parameters are unfiltered

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

UNKN = Unknown; filtered status could not be determined.

*U = Unfiltered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.

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TABLE E-3

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TABLE E-3A
INACTIVE FLYASH PILE
RI/FS SURFACE SOIL RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	N 478000 E 1379000		
SAMPLE NUMBER	005017		
SAMPLING DATE	0 - 2 09/02/87		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.700	pCi/g	R
NP-237	0.600	pCi/g	R
PU-238	0.600	pCi/g	R
PU-239/240	0.600	pCi/g	R
RA-226	1.400	pCi/g	R
RA-228	1.000	pCi/g	R
RU-106	1.500	pCi/g	R
SR-90	0.500	pCi/g	R
TC-99	9.000	pCi/g	R
TH-228	0.900	pCi/g	R
TH-230	5.300	pCi/g	R
TH-232	1.800	pCi/g	R
U-234	5.100	pCi/g	R
U-235/236	0.600	pCi/g	R
U-238	4.900	pCi/g	R

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TABLE E-3A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	IFP-SS-01			IFP-SS-02			IFP-SS-03		
SAMPLE NUMBER	111790	pc ⁻¹ /g	UJ	111791	pc ⁻¹ /g	-	111792	pc ⁻¹ /g	UJ
SAMPLING DATE	0 - 0.5			0 - 0.5			0 - 0.5		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.101	pc ⁻¹ /g	UJ	0.087	pc ⁻¹ /g	J	0.062	pc ⁻¹ /g	UJ
GROSS ALPHA	37.800	pc ⁻¹ /g	-	20.100	pc ⁻¹ /g	-	9.420	pc ⁻¹ /g	UJ
GROSS BETA	30.800	pc ⁻¹ /g	-	21.800	pc ⁻¹ /g	-	11.900	pc ⁻¹ /g	-
NP-237	0.589	pc ⁻¹ /g	R	0.069	pc ⁻¹ /g	R	0.030	pc ⁻¹ /g	N
PU-238	0.422	pc ⁻¹ /g	R	0.081	pc ⁻¹ /g	J	0.057	pc ⁻¹ /g	J
PU-239/240	0.183	pc ⁻¹ /g	R	0.024	pc ⁻¹ /g	UJ	0.034	pc ⁻¹ /g	UJ
RA-226	2.700	pc ⁻¹ /g	-	0.899	pc ⁻¹ /g	-	0.523	pc ⁻¹ /g	-
RA-228	2.620	pc ⁻¹ /g	-	0.966	pc ⁻¹ /g	-	0.415	pc ⁻¹ /g	J
RU-106	0.838	pc ⁻¹ /g	UJ	0.637	pc ⁻¹ /g	UJ	0.553	pc ⁻¹ /g	UJ
SR-90	1.140	pc ⁻¹ /g	J	0.525	pc ⁻¹ /g	J	0.345	pc ⁻¹ /g	UJ
TC-99	0.316	pc ⁻¹ /g	UJ	0.319	pc ⁻¹ /g	UJ	0.342	pc ⁻¹ /g	UJ
TH-228	2.710	pc ⁻¹ /g	-	0.557	pc ⁻¹ /g	R	0.397	μg/g	R
TH-230	2.770	pc ⁻¹ /g	-	1.130	pc ⁻¹ /g	R	0.411	μg/g	R
TH-232	2.330	pc ⁻¹ /g	-	0.686	pc ⁻¹ /g	R	0.382	μg/g	R
TH-TOTAL	21.400	μg/g	-	6.310	μg/g	R	3.020	μg/g	R
U-234	3.110	pc ⁻¹ /g	-	1.320	pc ⁻¹ /g	-	0.433	pc ⁻¹ /g	J
U-235/236	0.122	pc ⁻¹ /g	J	0.072	pc ⁻¹ /g	J	0.038	pc ⁻¹ /g	J
U-238	2.980	pc ⁻¹ /g	-	1.440	pc ⁻¹ /g	-	0.422	pc ⁻¹ /g	J
U-TOTAL	12.300	mg/kg	-	5.010	mg/kg	-	0.824	mg/kg	J

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TABLE E-3A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER SAMPLING DATE	RESULTS IFP-SS-04 111793 0 - 0.5 04/16/93	UNITS pc1/g	VQ	RESULTS IFP-SS-05 111794 0 - 0.5 04/16/93	UNITS pc1/g	VQ	RESULTS IFP-SS-06 111795 0 - 0.5 04/16/93	UNITS pc1/g	VQ
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.344	pc1/g	-	0.641	pc1/g	-	0.537	pc1/g	-
GROSS ALPHA	60.200	pc1/g	-	25.900	pc1/g	-	39.200	pc1/g	-
GROSS BETA	36.300	pc1/g	-	36.300	pc1/g	-	43.900	pc1/g	-
NP-237	0.137	pc1/g	N	0.041	pc1/g	N	0.068	pc1/g	R
PU-238	0.044	pc1/g	UJ	0.044	pc1/g	J	0.055	pc1/g	UJ
PU-239/240	0.044	pc1/g	UJ	0.021	pc1/g	J	0.067	pc1/g	UJ
RA-226	1.220	pc1/g	-	1.050	pc1/g	-	1.020	pc1/g	-
RA-228	1.200	pc1/g	-	0.827	pc1/g	-	1.480	pc1/g	-
RU-106	0.704	pc1/g	UJ	0.816	pc1/g	UJ	0.895	pc1/g	UJ
SR-90	0.854	pc1/g	J	0.629	pc1/g	J	0.500	pc1/g	UJ
TC-99	0.323	pc1/g	UJ	0.336	pc1/g	UJ	0.343	pc1/g	UJ
TH-228	1.020	pc1/g	R	0.790	pc1/g	-	0.928	pc1/g	R
TH-230	12.100	pc1/g	R	2.200	pc1/g	-	1.850	pc1/g	R
TH-232	1.070	pc1/g	R	0.841	pc1/g	-	1.030	pc1/g	R
TH-TOTAL	9.840	µg/g	R	7.740	µg/g	-	9.480	µg/g	R
U-234	6.180	pc1/g	-	7.690	pc1/g	-	10.600	pc1/g	-
U-235/236	0.276	pc1/g	J	0.335	pc1/g	-	0.602	pc1/g	-
U-238	6.120	pc1/g	-	7.560	pc1/g	-	11.200	pc1/g	-
U-TOTAL	19.700	mg/kg	-	20.400	mg/kg	-	32.100	mg/kg	-

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TABLE E-3A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	IFP-SS-07		
SAMPLE NUMBER	111796		
SAMPLING DATE	0 - 0.5 04/16/93		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.297	pCi/g	-
GROSS ALPHA	28.200	pCi/g	-
GROSS BETA	32.700	pCi/g	-
NP-237	0.035	pCi/g	N
PU-238	0.013	pCi/g	UJ
PU-239/240	0.027	pCi/g	UJ
RA-226	1.040	pCi/g	-
RA-228	0.758	pCi/g	-
RU-106	0.810	pCi/g	UJ
SR-90	0.770	pCi/g	-
TC-99	0.312	pCi/g	UJ
U-234	10.100	pCi/g	-
U-235/236	0.433	pCi/g	-
U-238	10.400	pCi/g	-
U-TOTAL	31.100	mg/kg	-

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TABLE E-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SS-01			IFP-SS-02			IFP-SS-03		
SAMPLE NUMBER	111790			111791			111792		
SAMPLING DATE	0-0.5			0-0.5			0-0.5		
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ	RESULTS	UNITS	L VQ	RESULTS	UNITS	L VQ
<u>Inorganics</u>									
Aluminum	4720.000	mg/kg	C -	5450.000	mg/kg	C -	1430.000	mg/kg	D -
Antimony	1.700	mg/kg	C U	1.100	mg/kg	C U	0.830	mg/kg	D UJ
Arsenic	33.200	mg/kg	C -	5.100	mg/kg	C -	1.900	mg/kg	D J
Barium	105.000	mg/kg	C -	46.800	mg/kg	C -	7.300	mg/kg	D -
Beryllium	2.100	mg/kg	C -	0.610	mg/kg	C -	0.330	mg/kg	D U
Cadmium	1.700	mg/kg	C U	1.100	mg/kg	C U	0.830	mg/kg	D U
Calcium	2730.000	mg/kg	C -	84000.000	mg/kg	C -	103000.000	mg/kg	D -
Chromium	8.300	mg/kg	C -	7.400	mg/kg	C -	2.500	mg/kg	D -
Cobalt	10.200	mg/kg	C -	4.100	mg/kg	C -	2.900	mg/kg	D -
Copper	41.100	mg/kg	C -	12.000	mg/kg	C -	4.800	mg/kg	D -
Cyanide	0.700	mg/kg	C -	0.120	mg/kg	C U	0.110	mg/kg	D U
Iron	2770.000	mg/kg	C -	11600.000	mg/kg	C -	5140.000	mg/kg	D -
Lead	31.300	mg/kg	C -	10.100	mg/kg	C -	3.200	mg/kg	D -
Magnesium	741.000	mg/kg	C -	21300.000	mg/kg	C -	16400.000	mg/kg	D -
Manganese	38.000	mg/kg	C -	358.000	mg/kg	C -	331.000	mg/kg	D -
Mercury	0.170	mg/kg	C U	0.110	mg/kg	C U	0.090	mg/kg	D U
Molybdenum	7.200	mg/kg	C -	4.500	mg/kg	C U	3.300	mg/kg	D U
Nickel	19.700	mg/kg	C -	11.200	mg/kg	C -	5.800	mg/kg	D -
Potassium	1170.000	mg/kg	C -	1100.000	mg/kg	C -	221.000	mg/kg	D -
Selenium	8.200	mg/kg	C -	0.450	mg/kg	C U	0.360	mg/kg	D U
Silicon	426.000	mg/kg	C -	674.000	mg/kg	C -	219.000	mg/kg	D -
Silver	3.300	mg/kg	C U	3.300	mg/kg	C -	1.700	mg/kg	D U
Sodium	74.500	mg/kg	C -	123.000	mg/kg	C -	77.000	mg/kg	D -
Thallium	2.100	mg/kg	C U	0.490	mg/kg	C U	0.360	mg/kg	D U
Vanadium	32.300	mg/kg	C -	15.100	mg/kg	C -	4.900	mg/kg	D -
Zinc	34.500	mg/kg	C -	31.100	mg/kg	C -	12.600	mg/kg	D -
<u>Volatile Organics</u>									
1,1,1-Trichloroethane	17.000	ug/kg	C U	11.000	ug/kg	C U	11.000	ug/kg	D U
1,1,2,2-Tetrachloroethane	17.000	ug/kg	C U	11.000	ug/kg	C U	11.000	ug/kg	D U
1,1,2-Trichloroethane	17.000	ug/kg	C U	11.000	ug/kg	C U	11.000	ug/kg	D U
1,1-Dichloroethane	17.000	ug/kg	C U	11.000	ug/kg	C U	11.000	ug/kg	D U
1,1-Dichloroethene	17.000	ug/kg	C U	11.000	ug/kg	C U	11.000	ug/kg	D U
1,2-Dichloroethane	17.000	ug/kg	C U	11.000	ug/kg	C U	11.000	ug/kg	D U
1,2-Dichloroethene	17.000	ug/kg	C U	11.000	ug/kg	C U	11.000	ug/kg	D U
1,2-Dichloropropane	17.000	ug/kg	C U	11.000	ug/kg	C U	11.000	ug/kg	D U
2-Butanone	17.000	ug/kg	C U	11.000	ug/kg	C U	11.000	ug/kg	D U
2-Hexanone	17.000	ug/kg	C UJ	11.000	ug/kg	C UJ	11.000	ug/kg	D UJ
4-Methyl-2-pentanone	17.000	ug/kg	C UJ	11.000	ug/kg	C UJ	11.000	ug/kg	D UJ
Acetone	17.000	ug/kg	C U	11.000	ug/kg	C U	11.000	ug/kg	D U
Benzene	17.000	ug/kg	C U	11.000	ug/kg	C U	11.000	ug/kg	D U

TABLE E-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SS-01	IFP-SS-02	IFP-SS-03			
SAMPLE NUMBER	111790	111791	111792			
SAMPLING DATE	0-0.5 04/16/93	0-0.5 04/16/93	0-0.5 04/16/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	17.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg D U
Bromoform	17.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg D U
Bromomethane	17.000	ug/kg C UJ	11.000	ug/kg C UJ	11.000	ug/kg D UJ
Carbon Tetrachloride	17.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg D U
Carbon disulfide	17.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg D U
Chlorobenzene	17.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg D U
Chloroethane	17.000	ug/kg C UJ	11.000	ug/kg C UJ	11.000	ug/kg D UJ
Chloroform	17.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg D U
Chloromethane	17.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg D U
Dibromochloromethane	17.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg D U
Ethylbenzene	17.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg D U
Methylene chloride	28.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg D U
Styrene	17.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg D U
Tetrachloroethene	17.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg D U
Toluene	55.000	ug/kg C -	3.000	ug/kg C J	5.000	ug/kg D J
Trichloroethene	17.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg D U
Vinyl Acetate	17.000	ug/kg C UJ	11.000	ug/kg C UJ	11.000	ug/kg D UJ
Vinyl chloride	17.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg D U
Xylenes, Total	17.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg D U
cis-1,3-Dichloropropene	17.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg D U
trans-1,3-Dichloropropene	17.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg D U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	560.000	ug/kg C U	390.000	ug/kg C U	360.000	ug/kg D U
1,2-Dichlorobenzene	560.000	ug/kg C U	390.000	ug/kg C U	360.000	ug/kg D U
1,3-Dichlorobenzene	560.000	ug/kg C U	390.000	ug/kg C U	360.000	ug/kg D U
1,4-Dichlorobenzene	560.000	ug/kg C U	390.000	ug/kg C U	360.000	ug/kg D U
2,4,5-Trichlorophenol	1400.000	ug/kg C U	950.000	ug/kg C U	870.000	ug/kg D U
2,4,6-Trichlorophenol	560.000	ug/kg C U	390.000	ug/kg C U	360.000	ug/kg D U
2,4-Dichlorophenol	560.000	ug/kg C U	390.000	ug/kg C U	360.000	ug/kg D U
2,4-Dimethylphenol	560.000	ug/kg C U	390.000	ug/kg C U	360.000	ug/kg D U
2,4-Dinitrophenol	1400.000	ug/kg C UJ	950.000	ug/kg C UJ	870.000	ug/kg D UJ
2,4-Dinitrotoluene	560.000	ug/kg C U	390.000	ug/kg C U	360.000	ug/kg D U
2,6-Dinitrotoluene	560.000	ug/kg C U	390.000	ug/kg C U	360.000	ug/kg D U
2-Chloronaphthalene	560.000	ug/kg C U	390.000	ug/kg C U	360.000	ug/kg D U
2-Chlorophenol	560.000	ug/kg C U	390.000	ug/kg C U	360.000	ug/kg D U
2-Methylnaphthalene	560.000	ug/kg C U	390.000	ug/kg C U	360.000	ug/kg D U
2-Methylphenol	560.000	ug/kg C U	390.000	ug/kg C U	360.000	ug/kg D U
2-Nitroaniline	1400.000	ug/kg C U	950.000	ug/kg C U	870.000	ug/kg D U
2-Nitrophenol	560.000	ug/kg C U	390.000	ug/kg C U	360.000	ug/kg D U
3,3'-Dichlorobenzidine	560.000	ug/kg C U	390.000	ug/kg C U	360.000	ug/kg D U

TABLE E-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SS-01				IFP-SS-02				IFP-SS-03			
SAMPLE NUMBER	111790	ug/kg	C	U	111791	ug/kg	C	R	111792	ug/kg	D	U
SAMPLING DATE	0-0.5				0-0.5				0-0.5			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
3-Nitroaniline	1400.000	ug/kg	C	U	950.000	ug/kg	C	U	870.000	ug/kg	D	U
4,6-Dinitro-2-methylphenol	1400.000	ug/kg	C	R	950.000	ug/kg	C	R	870.000	ug/kg	D	R
4-Bromophenyl phenyl ether	560.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	360.000	ug/kg	D	UJ
4-Chloro-3-methylphenol	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
4-Chlorophenylphenyl ether	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
4-Methylphenol	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
4-Nitroaniline	1400.000	ug/kg	C	R	950.000	ug/kg	C	R	870.000	ug/kg	D	R
4-Nitrophenol	1400.000	ug/kg	C	U	950.000	ug/kg	C	U	870.000	ug/kg	D	U
Acenaphthene	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Acenaphthylene	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Anthracene	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Benzo(a)anthracene	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Benzo(a)pyrene	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Benzo(b)fluoranthene	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Benzo(g,h,i)perylene	560.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	360.000	ug/kg	D	UJ
Benzo(k)fluoranthene	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Benzoic acid	2700.000	ug/kg	C	UJ	1900.000	ug/kg	C	UJ	1700.000	ug/kg	D	UJ
Benzyl alcohol	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Butyl benzyl phthalate	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Carbazole	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Chrysene	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
D1-n-butyl phthalate	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
D1-n-octyl phthalate	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Dibenz(a,h)anthracene	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Dibenzofuran	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Diethyl phthalate	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Dimethyl phthalate	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Fluoranthene	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Fluorene	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Hexachlorobenzene	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Hexachlorobutadiene	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Hexachlorocyclopentadiene	560.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	360.000	ug/kg	D	UJ
Hexachloroethane	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Indeno(1,2,3-cd)pyrene	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Isophorone	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
N-Nitroso-di-n-propylamine	560.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	360.000	ug/kg	D	UJ
N-Nitrosodiphenylamine	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Naphthalene	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Nitrobenzene	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Pentachlorophenol	1400.000	ug/kg	C	UJ	950.000	ug/kg	C	UJ	870.000	ug/kg	D	UJ
Phenanthrene	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U
Phenol	560.000	ug/kg	C	U	390.000	ug/kg	C	U	360.000	ug/kg	D	U

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TABLE E-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SS-01	IFP-SS-02	IFP-SS-03			
SAMPLE NUMBER	111790	111791	111792			
SAMPLING DATE	0-0.5 04/16/93	0-0.5 04/16/93	0-0.5 04/16/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Pyrene	560.000	ug/kg C U	390.000	ug/kg C U	360.000	ug/kg D U
bis(2-Chloroethoxy)methane	560.000	ug/kg C U	390.000	ug/kg C U	360.000	ug/kg D U
bis(2-Chloroethyl)ether	560.000	ug/kg C U	390.000	ug/kg C U	360.000	ug/kg D U
bis(2-Chloroisopropyl) ether	560.000	ug/kg C UJ	390.000	ug/kg C UJ	360.000	ug/kg D UJ
bis(2-Ethylhexyl) phthalate	560.000	ug/kg C U	390.000	ug/kg C U	360.000	ug/kg D U
p-Chloroaniline	560.000	ug/kg C U	390.000	ug/kg C U	360.000	ug/kg D U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	5.600	ug/kg C U	3.900	ug/kg C U	3.500	ug/kg D U
4,4'-DDE	5.600	ug/kg C U	3.900	ug/kg C U	3.500	ug/kg D U
4,4'-DDT	5.600	ug/kg C U	3.900	ug/kg C U	3.500	ug/kg D U
Aldrin	2.900	ug/kg C U	2.000	ug/kg C U	1.800	ug/kg D U
Aroclor-1016	56.000	ug/kg C U	39.000	ug/kg C U	35.000	ug/kg D U
Aroclor-1221	110.000	ug/kg C U	79.000	ug/kg C U	72.000	ug/kg D U
Aroclor-1232	56.000	ug/kg C U	39.000	ug/kg C U	35.000	ug/kg D U
Aroclor-1242	56.000	ug/kg C U	39.000	ug/kg C U	35.000	ug/kg D U
Aroclor-1248	56.000	ug/kg C U	39.000	ug/kg C U	35.000	ug/kg D U
Aroclor-1254	56.000	ug/kg C U	39.000	ug/kg C U	35.000	ug/kg D U
Aroclor-1260	56.000	ug/kg C U	39.000	ug/kg C U	35.000	ug/kg D U
Dieldrin	5.600	ug/kg C U	3.900	ug/kg C U	3.500	ug/kg D U
Endosulfan II	5.600	ug/kg C U	3.900	ug/kg C U	3.500	ug/kg D U
Endosulfan sulfate	5.600	ug/kg C U	3.900	ug/kg C U	3.500	ug/kg D U
Endosulfan-I	2.900	ug/kg C U	2.000	ug/kg C U	1.800	ug/kg D U
Endrin	5.600	ug/kg C U	3.900	ug/kg C U	3.500	ug/kg D U
Endrin aldehyde	5.600	ug/kg C U	3.900	ug/kg C U	3.500	ug/kg D U
Endrin ketone	5.600	ug/kg C U	3.900	ug/kg C U	3.500	ug/kg D U
Heptachlor	2.900	ug/kg C U	2.000	ug/kg C U	1.800	ug/kg D U
Heptachlor epoxide	2.900	ug/kg C U	2.000	ug/kg C U	1.800	ug/kg D U
Methoxychlor	29.000	ug/kg C U	20.000	ug/kg C U	18.000	ug/kg D U
Toxaphene	290.000	ug/kg C U	200.000	ug/kg C U	180.000	ug/kg D U
alpha-BHC	2.900	ug/kg C U	2.000	ug/kg C U	1.800	ug/kg D U
alpha-Chlordane	2.900	ug/kg C U	2.000	ug/kg C U	1.800	ug/kg D U
beta-BHC	2.900	ug/kg C U	2.000	ug/kg C U	1.800	ug/kg D U
delta-BHC	2.900	ug/kg C U	2.000	ug/kg C U	1.800	ug/kg D U
gamma-BHC (Lindane)	2.900	ug/kg C U	2.000	ug/kg C U	1.800	ug/kg D U
gamma-Chlordane	2.900	ug/kg C U	2.000	ug/kg C U	1.800	ug/kg D U

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TABLE E-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SS-04	IFP-SS-05	IFP-SS-06
SAMPLE NUMBER	111793	111794	111795
SAMPLING DATE	0-0.5 04/16/93	0-0.5 04/16/93	0-0.5 04/16/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Inorganics</u>			
Aluminum	8130.000	mg/kg C -	9400.000
Antimony	1.300	mg/kg C U	2.200
Arsenic	5.100	mg/kg C -	5.200
Barium	66.800	mg/kg C -	54.500
Beryllium	0.720	mg/kg C -	0.680
Cadmium	3.100	mg/kg C -	1.200
Calcium	82300.000	mg/kg C -	81000.000
Chromium	10.400	mg/kg C -	11.700
Cobalt	8.500	mg/kg C -	6.500
Copper	16.400	mg/kg C -	13.600
Cyanide	0.180	mg/kg C -	0.130
Iron	14400.000	mg/kg C -	17000.000
Lead	18.100	mg/kg C -	18.700
Magnesium	15400.000	mg/kg C -	25900.000
Manganese	418.000	mg/kg C -	440.000
Mercury	0.120	mg/kg C U	0.110
Molybdenum	5.000	mg/kg C U	5.100
Nickel	16.400	mg/kg C -	17.600
Potassium	1360.000	mg/kg C -	2030.000
Selenium	0.700	mg/kg C U	0.500
Silicon	449.000	mg/kg C -	1030.000
Silver	4.200	mg/kg C -	5.000
Sodium	94.200	mg/kg C -	155.000
Thallium	0.450	mg/kg C U	0.510
Vanadium	22.100	mg/kg C -	22.200
Zinc	50.600	mg/kg C -	55.100
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	13.000	ug/kg C U	13.000
1,1,2,2-Tetrachloroethane	13.000	ug/kg C U	13.000
1,1,2-Trichloroethane	13.000	ug/kg C U	13.000
1,1-Dichloroethane	13.000	ug/kg C U	13.000
1,1-Dichloroethene	13.000	ug/kg C U	13.000
1,2-Dichloroethane	13.000	ug/kg C U	13.000
1,2-Dichloroethene	13.000	ug/kg C U	13.000
1,2-Dichloropropane	13.000	ug/kg C U	13.000
2-Butanone	13.000	ug/kg C U	13.000
2-Hexanone	13.000	ug/kg C UJ	13.000
4-Methyl-2-pentanone	13.000	ug/kg C UJ	13.000
Acetone	10.000	ug/kg C J	2.000
Benzene	13.000	ug/kg C U	13.000

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TABLE E-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SS-04			IFP-SS-05			IFP-SS-06					
SAMPLE NUMBER	111793	0-0.5	04/16/93	111794	0-0.5	04/16/93	111795	0-0.5	04/16/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
Bromodichloromethane	13.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Bromoform	13.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Bromomethane	13.000	ug/kg	C	UJ	13.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ
Carbon Tetrachloride	13.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Carbon disulfide	13.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Chlorobenzene	13.000	ug/kg	C	U	13.000	ug/kg	C	UJ	12.000	ug/kg	C	U
Chloroethane	13.000	ug/kg	C	UJ	13.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ
Chloroform	13.000	ug/kg	C	U	13.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ
Chloromethane	13.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Dibromochloromethane	13.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Ethylbenzene	13.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Methylene chloride	13.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Styrene	13.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Tetrachloroethene	13.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Toluene	13.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Trichloroethene	13.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Vinyl Acetate	13.000	ug/kg	C	UJ	13.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ
Vinyl chloride	13.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Xylenes, Total	13.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
cis-1,3-Dichloropropene	13.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
trans-1,3-Dichloropropene	13.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	430.000	ug/kg	C	U	430.000	ug/kg	C	U	420.000	ug/kg	C	U
1,2-Dichlorobenzene	430.000	ug/kg	C	U	430.000	ug/kg	C	U	420.000	ug/kg	C	U
1,3-Dichlorobenzene	430.000	ug/kg	C	U	430.000	ug/kg	C	U	420.000	ug/kg	C	U
1,4-Dichlorobenzene	430.000	ug/kg	C	U	430.000	ug/kg	C	U	420.000	ug/kg	C	U
2,4,5-Trichlorophenol	1000.000	ug/kg	C	U	1000.000	ug/kg	C	U	1000.000	ug/kg	C	U
2,4,6-Trichlorophenol	430.000	ug/kg	C	U	430.000	ug/kg	C	U	420.000	ug/kg	C	U
2,4-Dichlorophenol	430.000	ug/kg	C	U	430.000	ug/kg	C	U	420.000	ug/kg	C	U
2,4-Dimethylphenol	430.000	ug/kg	C	U	430.000	ug/kg	C	U	420.000	ug/kg	C	U
2,4-Dinitrophenol	1000.000	ug/kg	C	UJ	1000.000	ug/kg	C	UJ	1000.000	ug/kg	C	UJ
2,4-Dinitrotoluene	430.000	ug/kg	C	U	430.000	ug/kg	C	U	420.000	ug/kg	C	U
2,6-Dinitrotoluene	430.000	ug/kg	C	U	430.000	ug/kg	C	U	420.000	ug/kg	C	U
2-Chloronaphthalene	430.000	ug/kg	C	U	430.000	ug/kg	C	U	420.000	ug/kg	C	U
2-Chlorophenol	430.000	ug/kg	C	U	430.000	ug/kg	C	U	420.000	ug/kg	C	U
2-Methylnaphthalene	430.000	ug/kg	C	U	430.000	ug/kg	C	U	420.000	ug/kg	C	U
2-Methylphenol	430.000	ug/kg	C	U	430.000	ug/kg	C	U	420.000	ug/kg	C	U
2-Nitroaniline	1000.000	ug/kg	C	U	1000.000	ug/kg	C	U	1000.000	ug/kg	C	U
2-Nitrophenol	430.000	ug/kg	C	U	430.000	ug/kg	C	U	420.000	ug/kg	C	U
3,3'-Dichlorobenzidine	430.000	ug/kg	C	U	430.000	ug/kg	C	U	420.000	ug/kg	C	U

TABLE E-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SS-04	IFP-SS-05	IFP-SS-06			
SAMPLE NUMBER	111793	111794	111795			
SAMPLING DATE	0-0.5 04/16/93	0-0.5 04/16/93	0-0.5 04/16/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
3-Nitroaniline	1000.000	ug/kg C U	1000.000	ug/kg C U	1000.000	ug/kg C U
4,6-Dinitro-2-methylphenol	1000.000	ug/kg C R	1000.000	ug/kg C R	1000.000	ug/kg C R
4-Bromophenyl phenyl ether	430.000	ug/kg C UJ	430.000	ug/kg C UJ	420.000	ug/kg C UJ
4-Chloro-3-methylphenol	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
4-Chlorophenylphenyl ether	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
4-Methylphenol	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
4-Nitroaniline	1000.000	ug/kg C R	1000.000	ug/kg C R	1000.000	ug/kg C R
4-Nitrophenol	1000.000	ug/kg C U	1000.000	ug/kg C U	1000.000	ug/kg C U
Acenaphthene	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Acenaphthylene	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Anthracene	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Benz(a)anthracene	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Benz(a)pyrene	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Benz(b)fluoranthene	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Benz(g,h,i)perylene	430.000	ug/kg C UJ	430.000	ug/kg C UJ	420.000	ug/kg C UJ
Benz(k)fluoranthene	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Benzoic acid	2100.000	ug/kg C UJ	2100.000	ug/kg C UJ	2000.000	ug/kg C UJ
Benzyl alcohol	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Butyl benzyl phthalate	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Carbazole	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Chrysene	430.000	ug/kg C U	100.000	ug/kg C U	420.000	ug/kg C U
Di-n-butyl phthalate	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Di-n-octyl phthalate	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Dibenzo(a,b)anthracene	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Dibenzofuran	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Diethyl phthalate	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Dimethyl phthalate	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Fluoranthene	430.000	ug/kg C U	200.000	ug/kg C U	420.000	ug/kg C U
Fluorene	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Hexachlorobenzene	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Hexachlorobutadiene	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Hexachlorocyclopentadiene	430.000	ug/kg C UJ	430.000	ug/kg C UJ	420.000	ug/kg C UJ
Hexachloroethane	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Indeno(1,2,3-cd)pyrene	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Isophorone	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
N-Nitroso-di-n-propylamine	430.000	ug/kg C UJ	430.000	ug/kg C UJ	420.000	ug/kg C UJ
N-Nitrosodiphenylamine	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Naphthalene	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Nitrobenzene	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Pentachlorophenol	1000.000	ug/kg C UJ	1000.000	ug/kg C UJ	1000.000	ug/kg C UJ
Phenanthrene	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
Phenol	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U

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TABLE E-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SS-04	IFP-SS-05	IFP-SS-06			
SAMPLE NUMBER	111793	111794	111795			
SAMPLING DATE	0-0.5 04/16/93	0-0.5 04/16/93	0-0.5 04/16/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Pyrene	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
bis(2-Chloroethoxy)methane	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
bis(2-Chloroethyl)ether	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
bis(2-Chloroisopropyl) ether	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C UJ
bis(2-Ethylhexyl) phthalate	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
p-Chloroaniline	430.000	ug/kg C U	430.000	ug/kg C U	420.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	4.400	ug/kg C U	4.300	ug/kg C U	4.200	ug/kg C U
4,4'-DDE	4.400	ug/kg C U	4.300	ug/kg C U	4.200	ug/kg C U
4,4'-DDT	4.400	ug/kg C U	4.300	ug/kg C U	4.200	ug/kg C U
Aldrin	2.200	ug/kg C U	2.200	ug/kg C U	2.200	ug/kg C U
Aroclor-1016	44.000	ug/kg C U	43.000	ug/kg C U	42.000	ug/kg C U
Aroclor-1221	89.000	ug/kg C U	87.000	ug/kg C U	85.000	ug/kg C U
Aroclor-1232	44.000	ug/kg C U	43.000	ug/kg C U	42.000	ug/kg C U
Aroclor-1242	44.000	ug/kg C U	43.000	ug/kg C U	42.000	ug/kg C U
Aroclor-1248	44.000	ug/kg C U	43.000	ug/kg C U	42.000	ug/kg C U
Aroclor-1254	44.000	ug/kg C U	43.000	ug/kg C U	42.000	ug/kg C U
Aroclor-1260	44.000	ug/kg C U	43.000	ug/kg C U	42.000	ug/kg C U
Dieldrin	4.400	ug/kg C U	4.300	ug/kg C U	4.200	ug/kg C U
Endosulfan II	4.400	ug/kg C U	4.300	ug/kg C U	4.200	ug/kg C U
Endosulfan sulfate	4.400	ug/kg C U	4.300	ug/kg C U	4.200	ug/kg C U
Endosulfan-I	2.200	ug/kg C U	2.200	ug/kg C U	2.200	ug/kg C U
Endrin	4.400	ug/kg C U	4.300	ug/kg C U	4.200	ug/kg C U
Endrin aldehyde	4.400	ug/kg C U	4.300	ug/kg C U	4.200	ug/kg C U
Endrin ketone	4.400	ug/kg C U	4.300	ug/kg C U	4.200	ug/kg C U
Heptachlor	2.200	ug/kg C U	2.200	ug/kg C U	2.200	ug/kg C U
Heptachlor epoxide	2.200	ug/kg C U	2.200	ug/kg C U	2.200	ug/kg C U
Methoxychlor	22.000	ug/kg C U	22.000	ug/kg C U	22.000	ug/kg C U
Toxaphene	220.000	ug/kg C U	220.000	ug/kg C U	220.000	ug/kg C U
alpha-BHC	2.200	ug/kg C U	2.200	ug/kg C U	2.200	ug/kg C U
alpha-Chlordane	2.200	ug/kg C U	2.200	ug/kg C U	2.200	ug/kg C U
beta-BHC	2.200	ug/kg C U	2.200	ug/kg C U	2.200	ug/kg C U
delta-BHC	2.200	ug/kg C U	2.200	ug/kg C U	2.200	ug/kg C U
gamma-BHC (Lindane)	2.200	ug/kg C U	2.200	ug/kg C U	2.200	ug/kg C U
gamma-Chlordane	2.200	ug/kg C U	2.200	ug/kg C U	2.200	ug/kg C U

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TABLE E-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SS-07	SAMPLE NUMBER	111796	DEPTH	0-0.5	SAMPLING DATE	04/16/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ			
<u>Inorganics</u>							
Aluminum	8230.000	mg/kg	C	-			
Antimony	1.300	mg/kg	C	UJ			
Arsenic	4.400	mg/kg	C	-			
Barium	69.500	mg/kg	C	-			
Beryllium	0.910	mg/kg	C	-			
Cadmium	1.300	mg/kg	C	U			
Calcium	142000.000	mg/kg	C	-			
Chromium	8.800	mg/kg	C	-			
Cobalt	3.300	mg/kg	C	-			
Copper	8.300	mg/kg	C	-			
Cyanide	0.120	mg/kg	C	U			
Iron	9710.000	mg/kg	C	-			
Lead	21.400	mg/kg	C	-			
Magnesium	55000.000	mg/kg	C	-			
Manganese	1020.000	mg/kg	C	-			
Mercury	0.110	mg/kg	C	U			
Molybdenum	5.000	mg/kg	C	U			
Nickel	8.500	mg/kg	C	-			
Potassium	1370.000	mg/kg	C	-			
Selenium	0.490	mg/kg	C	U			
Silicon	1220.000	mg/kg	C	-			
Silver	2.800	mg/kg	C	-			
Sodium	223.000	mg/kg	C	-			
Thallium	0.490	mg/kg	C	U			
Vanadium	14.900	mg/kg	C	-			
Zinc	28.500	mg/kg	C	-			
<u>Volatile Organics</u>							
1,1,1-Trichloroethane	13.000	ug/kg	C	U			
1,1,2,2-Tetrachloroethane	13.000	ug/kg	C	U			
1,1,2-Trichloroethane	13.000	ug/kg	C	U			
1,1-Dichloroethane	13.000	ug/kg	C	U			
1,1-Dichloroethene	13.000	ug/kg	C	U			
1,2-Dichloroethane	13.000	ug/kg	C	U			
1,2-Dichloroethene	13.000	ug/kg	C	U			
1,2-Dichloropropane	13.000	ug/kg	C	U			
2-Butanone	3.000	ug/kg	C	J			
2-Hexanone	13.000	ug/kg	C	UJ			
4-Methyl-2-pentanone	13.000	ug/kg	C	UJ			
Acetone	12.000	ug/kg	C	J			
Benzene	13.000	ug/kg	C	U			

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TABLE E-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SS-07		
SAMPLE NUMBER	111796		
	0-0.5		
SAMPLING DATE	04/16/93		
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Volatile Organics</u>			
Bromodichloromethane	13.000	ug/kg	C U
Bromoform	13.000	ug/kg	C U
Bromomethane	13.000	ug/kg	C UJ
Carbon Tetrachloride	13.000	ug/kg	C U
Carbon disulfide	13.000	ug/kg	C U
Chlorobenzene	13.000	ug/kg	C UJ
Chloroethane	13.000	ug/kg	C UJ
Chloroform	13.000	ug/kg	C U
Chloromethane	13.000	ug/kg	C U
Dibromochloromethane	13.000	ug/kg	C U
Ethylbenzene	13.000	ug/kg	C U
Methylene chloride	13.000	ug/kg	C U
Styrene	13.000	ug/kg	C U
Tetrachloroethene	13.000	ug/kg	C U
Toluene	13.000	ug/kg	C U
Trichloroethene	13.000	ug/kg	C U
Vinyl Acetate	13.000	ug/kg	C UJ
Vinyl chloride	13.000	ug/kg	C U
Xylenes, Total	13.000	ug/kg	C U
cis-1,3-Dichloropropene	13.000	ug/kg	C U
trans-1,3-Dichloropropene	13.000	ug/kg	C U
<u>Semivolatile Organics</u>			
1,2,4-Trichlorobenzene	430.000	ug/kg	C U
1,2-Dichlorobenzene	430.000	ug/kg	C U
1,3-Dichlorobenzene	430.000	ug/kg	C U
1,4-Dichlorobenzene	430.000	ug/kg	C U
2,4,5-Trichlorophenol	1000.000	ug/kg	C U
2,4,6-Trichlorophenol	430.000	ug/kg	C U
2,4-Dichlorophenol	430.000	ug/kg	C U
2,4-Dimethylphenol	430.000	ug/kg	C U
2,4-Dinitrophenol	1000.000	ug/kg	C UJ
2,4-Dinitrotoluene	430.000	ug/kg	C U
2,6-Dinitrotoluene	430.000	ug/kg	C U
2-Chloronaphthalene	430.000	ug/kg	C U
2-Chlorophenol	430.000	ug/kg	C U
2-Methylnaphthalene	160.000	ug/kg	C J
2-Methylphenol	430.000	ug/kg	C U
2-Nitroaniline	1000.000	ug/kg	C U
2-Nitrophenol	430.000	ug/kg	C U
3,3'-Dichlorobenzidine	430.000	ug/kg	C U

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TABLE E-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SS-07			
SAMPLE NUMBER	111796			
SAMPLING DATE	0-0.5 04/16/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>				
3-Nitroaniline	1000.000	ug/kg	C	U
4,6-Dinitro-2-methylphenol	1000.000	ug/kg	C	R
4-Bromophenyl phenyl ether	430.000	ug/kg	C	UJ
4-Chloro-3-methylphenol	430.000	ug/kg	C	U
4-Chlorophenylphenyl ether	430.000	ug/kg	C	U
4-Methylphenol	430.000	ug/kg	C	U
4-Nitroaniline	1000.000	ug/kg	C	R
4-Nitrophenol	1000.000	ug/kg	C	U
Acenaphthene	460.000	ug/kg	C	-
Acenaphthylene	1800.000	ug/kg	C	J
Anthracene	1700.000	ug/kg	C	J
Benzo(a)anthracene	8900.000	ug/kg	C	U
Benzo(a)pyrene	16000.000	ug/kg	C	U
Benzo(b)fluoranthene	17000.000	ug/kg	C	U
Benzo(g,h,i)perylene	7200.000	ug/kg	C	UJ
Benzo(k)fluoranthene	5700.000	ug/kg	C	U
Benzoic acid	2100.000	ug/kg	C	UJ
Benzyl alcohol	430.000	ug/kg	C	U
Butyl benzyl phthalate	430.000	ug/kg	C	U
Carbazole	510.000	ug/kg	C	-
Chrysene	9000.000	ug/kg	C	U
Di-n-butyl phthalate	430.000	ug/kg	C	U
Di-n-octyl phthalate	430.000	ug/kg	C	U
Dibenzo(a,h)anthracene	2200.000	ug/kg	C	-
Dibenzofuran	250.000	ug/kg	C	J
Diethyl phthalate	430.000	ug/kg	C	U
Dimethyl phthalate	430.000	ug/kg	C	U
Fluoranthene	430.000	ug/kg	C	U
Fluorene	510.000	ug/kg	C	-
Hexachlorobenzene	430.000	ug/kg	C	U
Hexachlorobutadiene	430.000	ug/kg	C	U
Hexachlorocyclopentadiene	430.000	ug/kg	C	UJ
Hexachloroethane	430.000	ug/kg	C	U
Indeno(1,2,3-cd)pyrene	9300.000	ug/kg	C	U
Isophorone	430.000	ug/kg	C	U
N-Nitroso-di-n-propylamine	430.000	ug/kg	C	UJ
N-Nitrosodiphenylamine	430.000	ug/kg	C	U
Naphthalene	100.000	ug/kg	C	J
Nitrobenzene	430.000	ug/kg	C	U
Pentachlorophenol	1000.000	ug/kg	C	UJ
Phenanthrene	5700.000	ug/kg	C	U
Phenol	430.000	ug/kg	C	U

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TABLE E-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SS-07		
SAMPLE NUMBER	111796		
SAMPLING DATE	0-0.5 04/16/93		
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Semivolatile Organics</u>			
Pyrene	16000.000	ug/kg	C U
bis(2-Chloroethoxy)methane	430.000	ug/kg	C U
bis(2-Chloroethyl)ether	430.000	ug/kg	C U
bis(2-Chloroisopropyl) ether	430.000	ug/kg	C UJ
bis(2-Ethylhexyl) phthalate	430.000	ug/kg	C U
p-Chloroaniline	430.000	ug/kg	C U
<u>Pesticide Organics/PCBs</u>			
4,4'-DDD	4.300	ug/kg	C U
4,4'-DDE	4.300	ug/kg	C U
4,4'-DDT	4.300	ug/kg	C U
Aldrin	2.200	ug/kg	C U
Aroclor-1016	43.000	ug/kg	C U
Aroclor-1221	87.000	ug/kg	C U
Aroclor-1232	43.000	ug/kg	C U
Aroclor-1242	43.000	ug/kg	C U
Aroclor-1248	43.000	ug/kg	C U
Aroclor-1254	43.000	ug/kg	C U
Aroclor-1260	90.000	ug/kg	C U
Dieldrin	4.300	ug/kg	C U
Endosulfan II	4.300	ug/kg	C U
Endosulfan sulfate	4.300	ug/kg	C U
Endosulfan-I	2.200	ug/kg	C U
Endrin	4.300	ug/kg	C U
Endrin aldehyde	4.300	ug/kg	C U
Endrin ketone	4.300	ug/kg	C U
Heptachlor	2.200	ug/kg	C U
Heptachlor epoxide	2.200	ug/kg	C U
Methoxychlor	22.000	ug/kg	C U
Toxaphene	220.000	ug/kg	C U
alpha-BHC	2.200	ug/kg	C U
alpha-Chlordane	2.200	ug/kg	C U
beta-BHC	2.200	ug/kg	C U
delta-BHC	2.200	ug/kg	C U
gamma-BHC (Lindane)	2.200	ug/kg	C U
gamma-Chlordane	2.200	ug/kg	C U

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TABLE E-3B
INACTIVE FLYASH PILE
TENTATIVELY IDENTIFIED COMPOUNDS
SURFACE SOIL

Sample Number	Sample Location	Parameter	Result	Units
111812	IFP-SD-02	oxirane, trimethyl-	480	ug/kg
111812	IFP-SD-02	cyclohexanone	370	ug/kg
111812	IFP-SD-02	ethanone, 1-oxiranyl-	550	ug/kg
111812	IFP-SD-02	1-octanol, 2,7-dimethyl	430	ug/kg
111812	IFP-SD-02	decano, 6-ethyl-2-methyl	370	ug/kg
111812	IFP-SD-02	octacosane	420	ug/kg
111812	IFP-SD-02	propanic acid, 2-methyl-, 2	330	ug/kg
111812	IFP-SD-02	octacosane	380	ug/kg
111812	IFP-SD-02	heptadecane, 2,6,10,15-tetra	450	ug/kg
111812	IFP-SD-02	octacosane	320	ug/kg
111812	IFP-SD-02	tetratetracontane	330	ug/kg
111812	IFP-SD-02	1,2-benzenedicarboxylic acid	950	ug/kg
111812	IFP-SD-02	hexatriacontane	350	ug/kg
111812	IFP-SD-02	heptacosane	320	ug/kg
111812	IFP-SD-02	2-butene, 1,4-diethoxy	470	ug/kg
111812	IFP-SD-02	tetratetracontane	450	ug/kg
111812	IFP-SD-02	9-octadecenamind, (z)-	3000	ug/kg
111812	IFP-SD-02	tetratetracontane	650	ug/kg
111812	IFP-SD-02	tetratetracontane	700	ug/kg
111812	IFP-SD-02	tritetraccontane	570	ug/kg
111813	IFP-SD-03	oxirane, trimethyl-	150	ug/kg
111813	IFP-SD-03	acetic acid, 2-propenyl este	450	ug/kg
111813	IFP-SD-03	acetic acid ethenyl ester	490	ug/kg
111813	IFP-SD-03	propanoic acid, 2-methyl-, 1	180	ug/kg
111813	IFP-SD-03	1,2-benzenedicarboxylic acid	570	ug/kg
111813	IFP-SD-03	9-octadecenamide, (z)-	1600	ug/kg
111813	IFP-SD-03	tetratetracontane	450	ug/kg
111813	IFP-SD-03	tetratetracontane	410	ug/kg
111813	IFP-SD-03	tritetraccontane	1600	ug/kg
111813	IFP-SD-03	octadecane, 9-ethyl-9-heptyl	1000	ug/kg
111815	IFP-SD-04	butanoic acid	320	ug/kg
111815	IFP-SD-04	1,2-benzenedicarboxylic acid	1000	ug/kg
111815	IFP-SD-04	tetradecanoic acid	680	ug/kg
111815	IFP-SD-04	sulfuric acid, 5,8,11-heptad	540	ug/kg
111815	IFP-SD-04	hexadecane	440	ug/kg
111815	IFP-SD-04	tetratetracontane	420	ug/kg
111815	IFP-SD-04	9-octadecenamide, (z)	3800	ug/kg
111815	IFP-SD-04	tetratetracontane	1000	ug/kg
111815	IFP-SD-04	tetratetracontane	1000	ug/kg
111815	IFP-SD-04	tritetraccontane	1000	ug/kg
111815	IFP-SD-04	tritetraccontane	1300	ug/kg
111815	IFP-SD-04	eicosane, 2-methyl-	1300	ug/kg
111790	IFP-SS-01	hexane (DOT)	17	ug/kg
111796	IFP-SS-07	triphenylene, methyl	1200	ug/kg

TABLE E-4

TABLE E-4
INACTIVE FLYASH PILE
CIS SURFACE SOIL RADIOLOGICAL RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

FEMP ID #	SS24137				SL24188				SS24241	
	Depth	0-2"			12-18"			0-6"		
		Date	04/28/87			04/24/87			05/05/87	
Isotope	Activity (pCi/g)	Uncertainty	Validation Qualifier	Activity (pCi/g)	Uncertainty	Validation Qualifier	Activity (pCi/g)	Uncertainty	Validation Qualifier	
Cesium-137	1.15	±0.77	J	0.36	±0.23	J	1.69	±0.92		
Ruthenium-106	3.42	NA ^a	U	2.04	NA	U	17.72	±8.91		
Neptunium-237	0.13	NA	U	0.04	NA	U	0.06	NA	U	
Plutonium-239/240	0.04	NA	U	0.02	NA	U	1.52	±0.45		
Strontium-90	0.27	NA	U	0.29	NA	U	0.17	NA	U	
Technetium-99	1.80	NA	U	1.20	NA	U	594	±51		
Thorium-230	17.8	±3.69	R	1.58	±0.34	J	8.66	±0.68	J	
Uranium-235	14.6	±0.70		5.79	±0.39	J	2190	±33.5		
Uranium-234	255	±2.92		114	±1.74	J	1137	±76.3		
Plutonium-238	0.22	NA	U	0.05	NA	U	0.13	±0.13	J	
Uranium-238	216	±2.69		92.3	±1.56	J	8600	±66.3		
Thorium-228	13.5	±3.63	R	3.55	±0.52	J	3.52	±0.45	J	
Thorium-232	18.5	±3.81	R	2.91	±0.48	J	1.95	±0.36	J	

See footnotes at end of table

TABLE E-4
(Continued)

FEMP ID #	SS24224		
Depth	0-2"		
Date	04/29/87		
Isotope	Activity (pCi/g)	Uncertainty	Validation Qualifier
Cesium-137	0.80	NA	< ^b
Ruthenium-106	4.00	NA	<
Neptunium-237	0.10	NA	<
Plutonium-239/240	0.10	NA	<
Strontium-90	0.70	NA	<
Technetium-99	0.40	NA	<
Thorium-230	59.00	±4.00	
Uranium-235	1.90	±0.20	
Uranium-234	82.00	±1.00	
Plutonium-238	0.10	NA	<
Uranium-238	40.00	±1.00	
Thorium-228	0.90	NA	<
Thorium-232	0.40	NA	<

^aNot applicable

^bQualifiers were from the laboratory, no validation could be completed on the sample. < = less than.

TABLE E-6

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TABLE E-5
INACTIVE FLYASH PILE
SURFACE MEDIA ENVIRONMENTAL SURVEY
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Analyte	FE0111SS	FE0113SS	FE0114SS
Asbestos	ND	ND	ND
RADIONUCLIDES (pCi/g)			
Bismuth-214	1.2±0.04	0.1±0.1	1.0±0.1
Cesium-137	0.07±0.02	0.44±0.04	B
Radium-226	1.2±0.1G	0.89±0.06G	1.0±0.1
Thorium-228	1.0±0.05G	1.2±0.1G	1.0±0.1G
Thorium-232	1.1±0.1G	1.0±0.1G	1.0±0.1G
Uranium-235	0.16±0.01	N	N
Uranium-238	N	N	N
Total Uranium (mg/kg)	4.8	9.7	4.5
TCLP METALS (mg/L)			
Arsenic	<0.5	<0.5	<0.5
Barium	0.46 B	0.55 B	0.47 B
Cadmium	<0.02	<0.02	<0.02
Chromium	<0.03	<0.03	<0.03
Lead	<0.3	<0.3	<0.3
Mercury	<0.001	<0.001	<0.001
Selenium	<0.5	<0.5	<0.5
Silver	<0.1	<0.1	<0.1
VOLATILE ORGANIC COMPOUNDS (µg/kg)			
1,1-Dichloroethane	<5	<5	<5
1,1,1-Trichloroethane	<5	<5	<5
1,1,2-Trichloroethane	<5	<5	<5
1,1,2,2-Tetrachloroethane	<5	<5	<5
1,2-Dichloroethane	<5	<5	<5
1,2-Dichloropropane	<5	<5	<5
2-Butanone	11 B	8 BJ	10 B
2-Chloroethylvinyl Ether	<10	<10	<10
2-Hexanone	<10	<10	<10
Acetone	100 Z5	24 B	21 B
Benzene	<5	<5	<5
Bromodichloromethane	<5	<5	<5
Bromoform	<5	<5	<5

See notes at end of table

TABLE E-5
(Continued)

Analyte	FE0111SS	FE0113SS	FE0114SS
VOLATILE ORGANIC COMPOUNDS ($\mu\text{g}/\text{kg}$) (continued)			
Bromomethane	<10	<10	<10
Carbon disulfide	<5	<5	<5
Carbon tetrachloride	<5	<5	<5
Chlorobenzene	<5	<5	<5
Chloroethane	<10	<10	<10
Chloroform	4 BJ	4 BJ	2 BJ
Chloromethane	<10	<10	<5
Cis-1,3-dichloropropene	<5	<5	<5
Dibromochloromethane	<5	<5	<5
Ethyl benzene	<5	<5	<5
Methylene chloride	100 ZS	42	30 B
Styrene	<5	<5	<5
Tetrachloroethene	<5	<5	<5
Toluene	20	10 B	6 B
Total xylenes	<5	<5	<5
Trans-1,2-dichloroethene	<5	<5	<5
Trans-1,3-dichloropropene	<5	<5	<5
Trichloroethene	<5	<5	<5
Vinyl acetate	<10	<10	<10
Vinyl chloride	<10	<10	<10
PCBs (mg/kg)			
Aroclor-1242	NA	NA	NA
Aroclor-1248	NA	NA	NA
Aroclor-1254	NA	NA	NA
Aroclor-1260	NA	NA	NA

NA = Not Analyzed

N = Nuclide not identified by GAMANAL analysis as being present in the sample; no value reported

I = Nuclide identified by GAMANAL analysis of sample spectrum, but values did not exceed room background at the 95% confidence level; no value reported

B = Analyte was found in the blank as well as the sample

J = Estimated value of compound present but less than the specified detection limit

G = Gamma Spectroscopy Analysis

ND = None Detected

ZS = The samples exhibited low internal standard recovery due to the retention properties of the matrix. The reported detection limits are for soil samples and should not be used as the minimum attainable limits

TABLE E-6A
INACTIVE FLYASH PILE
RI/FS SUBSURFACE SOIL RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1016	1047	1708
SAMPLE NUMBER	007233	007301	067095
SAMPLING DATE	1.5 - 3 10/15/87	9 - 10.5 10/16/87	6 - 7.5 06/14/91
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	UJ
NP-237	0.600	pCi/g	J
PU-238	0.600	pCi/g	U
PU-239/240	0.600	pCi/g	U
RA-226	0.700	pCi/g	J
RA-228	0.800	pCi/g	J
RU-106	1.000	pCi/g	UJ
SR-90	0.500	pCi/g	R
TC-99	0.900	pCi/g	NV
TH-228	1.100	pCi/g	-
TH-230	0.900	pCi/g	-
TH-232	0.600	pCi/g	-
TH-TOTAL	NA		
U-234	10.700	pCi/g	J
U-235/236	0.600	pCi/g	UJ
U-238	11.400	pCi/g	J
U-TOTAL	NA		

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TABLE E-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1708	1708	1709
SAMPLE NUMBER	067101	067111	067062
SAMPLING DATE	15 - 16.5 06/16/91	30 - 31.5 06/16/91	4.5 - 6 06/04/91
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	UJ
GROSS ALPHA	NA		
GROSS BETA	NA		
NP-237	0.600	pCi/g	UJ
PB-210	NA		
PU-238	0.600	pCi/g	UJ
PU-239/240	0.600	pCi/g	R
RA-224	NA		
RA-226	2.660	pCi/g	J
RA-228	2.460	pCi/g	J
RU-106	1.000	pCi/g	UJ
SR-90	1.250	pCi/g	J
TC-99	0.900	pCi/g	U
TH-228	2.700	pCi/g	J
TH-230	2.730	pCi/g	J
TH-232	1.810	pCi/g	J
TH-TOTAL	16.300	mg/kg	J
U-234	2.880	pCi/g	J
U-235	NA		
U-235/236	0.600	pCi/g	UJ
U-238	2.970	pCi/g	J
U-TOTAL	11.100	mg/kg	J
	0.200	pCi/g	J
	NA		
	0.600	pCi/g	J
	NA		
	0.600	pCi/g	R
	NA		
	1.720	pCi/g	J
	1.090	pCi/g	J
	1.000	pCi/g	J
	0.700	pCi/g	DJ
	0.900	pCi/g	U
	1.590	pCi/g	J
	2.930	pCi/g	J
	1.170	pCi/g	J
	10.600	mg/kg	J
	20.640	pCi/g	J
	NA		
	0.687	pCi/g	J
	21.940	pCi/g	J
	68.200	mg/kg	J
	0.200	pCi/g	U
	65.000	pCi/g	NV
	49.900	pCi/g	NV
	0.600	pCi/g	UJ
	0.800	pCi/g	-
	0.600	pCi/g	U
	0.600	pCi/g	U
	2.290	pCi/g	-
	1.960	pCi/g	-
	1.660	pCi/g	-
	1.300	pCi/g	D
	0.900	pCi/g	D
	0.900	pCi/g	UJ
	2.080	pCi/g	J
	3.740	pCi/g	J
	2.020	pCi/g	J
	18.300	mg/kg	J
	4.400	pCi/g	-
	1.100	pCi/g	J
	0.960	pCi/g	J
	5.600	pCi/L	-
	67.000	mg/kg	-

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TABLE E-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1709			1709			1710		
SAMPLE NUMBER	067072	pc1/g	NV	067081	pc1/g	NV	067028	pc1/g	NV
SAMPLING DATE	15 - 16.5			28.5 - 30			3 - 4.5		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.200	pc1/g	U	0.200	pc1/g	U	0.200	pc1/g	U
GROSS ALPHA	52.800	pc1/g	NV	36.200	pc1/g	NV	55.800	pc1/g	NV
GROSS BETA	35.900	pc1/g	NV	21.300	pc1/g	NV	41.800	pc1/g	NV
NP-237	0.780	pc1/g	J	0.600	pc1/g	UJ	0.600	pc1/g	UJ
PB-210	1.250	pc1/g	-	1.170	pc1/g	-	1.180	pc1/g	-
PU-238	0.600	pc1/g	-	0.600	pc1/g	U	0.600	pc1/g	U
PU-239/240	0.600	pc1/g	U	0.600	pc1/g	U	0.600	pc1/g	U
RA-224	2.960	pc1/g	-	3.050	pc1/g	-	3.050	pc1/g	-
RA-226	2.790	pc1/g	-	2.130	pc1/g	-	2.350	pc1/g	-
RA-228	2.200	pc1/g	-	2.190	pc1/g	-	2.460	pc1/g	-
RU-106	1.300	pc1/g	D	1.500	pc1/g	D	1.400	pc1/g	D
SR-90	0.800	pc1/g	-	0.900	pc1/g	D	0.900	pc1/g	D
TC-99	0.900	pc1/g	U	0.900	pc1/g	UJ	0.900	pc1/g	U
TH-228	2.780	pc1/g	J	2.510	pc1/g	-	2.640	pc1/g	C
TH-230	4.500	pc1/g	J	3.070	pc1/g	-	3.310	pc1/g	C
TH-232	2.650	pc1/g	J	2.210	pc1/g	-	2.470	pc1/g	C
TH-TOTAL	23.900	mg/kg	J	20.000	mg/kg	-	22.200	mg/kg	C
U-234	4.630	pc1/g	-	3.520	pc1/g	-	11.400	pc1/g	C
U-235	4.400	pc1/g	D	0.500	pc1/g	U	0.570	pc1/g	C
U-235/236	0.600	pc1/g	U	0.600	pc1/g	U	0.880	pc1/g	C
U-238	5.090	pc1/g	-	3.360	pc1/g	J	9.570	pc1/g	C
U-TOTAL	14.500	mg/kg	J	14.400	mg/kg	J	38.200	mg/kg	C

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TABLE E-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1710	1710	1711
SAMPLE NUMBER	067043	067046	067010
SAMPLING DATE	22.5 - 23 06/01/91	27 - 28.5 06/01/91	1.5 - 3 05/23/91
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pc ¹ /g	U
GROSS ALPHA	140.000	pc ¹ /g	NV
GROSS BETA	75.000	pc ¹ /g	NV
NP-237	NA		
PB-210	2.750	pc ¹ /g	J
PU-238	0.600	pc ¹ /g	UJ
PU-239/240	0.600	pc ¹ /g	U
RA-224	3.110	pc ¹ /g	J
RA-226	6.360	pc ¹ /g	J
RA-228	2.880	pc ¹ /g	J
RU-106	1.200	pc ¹ /g	DJ
SR-90	0.500	pc ¹ /g	U
TC-99	0.900	pc ¹ /g	U
TH-228	4.100	pc ¹ /g	J
TH-230	12.800	pc ¹ /g	J
TH-232	4.000	pc ¹ /g	-
TH-TOTAL	36.100	mg/kg	-
U-234	51.400	pc ¹ /g	J
U-235	2.040	pc ¹ /g	J
U-235/236	3.290	pc ¹ /g	J
U-238 (Alpha)	54.2	pc ¹ /g	-
U-TOTAL	128.000	mg/kg	J
	0.200	pc ¹ /g	U
	766.000	pc ¹ /g	NV
	442.000	pc ¹ /g	NV
	0.600	pc ¹ /g	J
	16.800	pc ¹ /g	-
	1.000	pc ¹ /g	U
	1.000	pc ¹ /g	U
	3.490	pc ¹ /g	-
	36.000	pc ¹ /g	-
	3.120	pc ¹ /g	-
	1.800	pc ¹ /g	D
	1.740	pc ¹ /g	-
	0.900	pc ¹ /g	J
	3.030	pc ¹ /g	J
	54.600	pc ¹ /g	-
	3.280	pc ¹ /g	-
	29.600	mg/kg	-
	187.000	pc ¹ /g	-
	12.700	pc ¹ /g	-
	18.500	pc ¹ /g	-
	191.000	pc ¹ /g	-
	660.000	mg/kg	-
	0.200	pc ¹ /g	U
	102.000	pc ¹ /g	NV
	72.300	pc ¹ /g	NV
	0.600	pc ¹ /g	UJ
	1.240	pc ¹ /g	-
	0.600	pc ¹ /g	R
	0.600	pc ¹ /g	R
	2.940	pc ¹ /g	-
	2.740	pc ¹ /g	-
	2.160	pc ¹ /g	-
	1.500	pc ¹ /g	D
	1.100	pc ¹ /g	D
	0.900	pc ¹ /g	U
	0.790	pc ¹ /g	J
	1.410	pc ¹ /g	J
	0.800	pc ¹ /g	J
	7.220	mg/kg	J
	42.000	pc ¹ /g	-
	2.420	pc ¹ /g	-
	5.340	pc ¹ /g	-
	40.100	pc ¹ /g	-
	123.000	mg/kg	-

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TABLE E-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1711	1711	1791
SAMPLE NUMBER	067014	067019	067121
SAMPLING DATE	7.5 - 9 05/29/91	13.5 - 15 05/29/91	27 - 28.5 06/25/91
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	U
GROSS ALPHA	59.000	pCi/g	NV
GROSS BETA	36.500	pCi/g	NV
NP-237	0.600	pCi/g	UJ
PB-210	1.870	pCi/g	-
PU-238	0.600	pCi/g	U
PU-239/240	0.600	pCi/g	D
RA-224	3.220	pCi/g	-
RA-226	4.110	pCi/g	-
RA-228	2.670	pCi/g	-
RU-106	1.400	pCi/g	D D
SR-90	0.900	pCi/g	-
TC-99	0.900	pCi/g	D D
TH-228	3.340	pCi/g	-
TH-230	6.090	pCi/g	-
TH-232	3.100	pCi/g	-
TH-TOTAL	28.000	mg/kg	-
U-234	5.930	pCi/g	-
U-235	0.500	pCi/g	U
U-235/236	0.870	pCi/g	-
U-238	6.070	pCi/g	J
U-TOTAL	18.200	mg/kg	J
	0.200	pCi/g	U
	24.800	pCi/g	NV
	28.600	pCi/g	NV
	0.600	pCi/g	UJ
	0.710	pCi/g	-
	0.600	pCi/g	U
	0.600	pCi/g	U
	1.710	pCi/g	-
	1.480	pCi/g	-
	1.270	pCi/g	-
	1.200	pCi/g	D
	0.900	pCi/g	D
	0.900	pCi/g	D D
	1.560	pCi/g	J
	2.140	pCi/g	J
	1.100	pCi/g	J
	9.890	mg/kg	J
	4.950	pCi/g	-
	0.400	pCi/g	U
	0.600	pCi/g	U U
	3.520	pCi/g	J
	18.000	mg/kg	J
	873.000	mg/kg	J

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000030

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TABLE E-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1849	2047	2401
SAMPLE NUMBER	067618	008960	038486
SAMPLING DATE	28.5 - 30 02/22/92	25 - 26.5 12/20/88	0 - 65 03/06/92
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	UJ
GROSS ALPHA	11.400	pCi/g	NV
GROSS BETA	19.700	pCi/g	NV
NP-237	NA		
PB-210	0.790	pCi/g	J
PU-238	0.600	pCi/g	U
PU-239/240	0.600	pCi/g	U
RA-224	1.020	pCi/g	J
RA-226	0.950	pCi/g	J
RA-228	0.740	pCi/g	J
RU-106	1.000	pCi/g	UJ
SR-90	0.770	pCi/g	-
TC-99	0.900	pCi/g	UJ
TH-228	1.440	pCi/g	-
TH-230	1.690	pCi/g	-
TH-232	0.910	pCi/g	-
TH-TOTAL	8.210	mg/kg	-
U-234	1.730	pCi/g	-
U-235	3.300	pCi/g	UJ
U-235/236	0.600	pCi/g	U
U-238	1.760	pCi/g	-
U-TOTAL	6.930	mg/kg	J
	0.200	pCi/g	UJ
	NA		
	0.600	pCi/g	U
	NA		
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	NA		
	0.400	pCi/g	J
	0.500	pCi/g	UJ
	1.000	pCi/g	UJ
	0.700	pCi/g	-
	0.900	pCi/g	U
	0.600	pCi/g	R
	1.000	pCi/g	R
	0.600	pCi/g	R
	NA		
	6.080	mg/kg	-
	NA		
	4.640	mg/kg	-

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000001

TABLE E-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	4016	4016	4016
SAMPLE NUMBER	010441	010450	010454
SAMPLING DATE	50 - 51.5 12/18/88	95 - 96.5 12/20/88	115 - 116.5 12/21/88
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	UJ
NP-237	0.600	pCi/g	U
PU-238	0.600	pCi/g	UJ
PU-239/240	0.600	pCi/g	UJ
RA-226	0.500	pCi/g	J
RA-228	0.500	pCi/g	UJ
RU-106	1.000	pCi/g	UJ
SR-90	0.500	pCi/g	U
TC-99	0.900	pCi/g	U
TH-228	0.600	pCi/g	U
TH-230	0.600	pCi/g	U
TH-232	0.600	pCi/g	U
U-234	0.600	pCi/g	U
U-235/236	0.600	pCi/g	U
U-238	0.600	pCi/g	U
U-TOTAL	2.000	mg/kg	UJ
	0.200	pCi/g	R
	0.600	pCi/g	U
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	0.900	pCi/g	R
	1.200	pCi/g	R
	1.000	pCi/g	R
	4.000	pCi/g	-
	0.900	pCi/g	U
	1.100	pCi/g	R
	1.200	pCi/g	R
	0.900	pCi/g	R
	0.700	pCi/g	-
	0.600	pCi/g	U
	0.800	pCi/g	-
	3.000	mg/kg	R
	0.200	pCi/g	UJ
	0.600	pCi/g	U
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	0.300	pCi/g	UJ
	0.500	pCi/g	UJ
	1.000	pCi/g	UJ
	0.900	pCi/g	-
	0.900	pCi/g	U
	0.600	pCi/g	U
	2.000	mg/kg	UJ

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0000002

TABLE E-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1708	1708	1708
SAMPLE NUMBER	067096	067102	067112
SAMPLING DATE	7.5-9 06/14/91	16.5-18 06/16/91	31.5-33 06/16/91
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Inorganics</u>			
Aluminum	6350.000	mg/kg D -	7250.000
Antimony	7.700	mg/kg D UJ	8.400
Arsenic	7.100	mg/kg D J	7.400
Barium	315.000	mg/kg D -	294.000
Beryllium	1.800	mg/kg D -	2.000
Cadmium	0.860	mg/kg D -	1.300
Calcium	22700.000	mg/kg D J	36800.000
Chromium	15.900	mg/kg D -	19.600
Cobalt	7.000	mg/kg D -	8.000
Copper	27.900	mg/kg D -	29.500
Cyanide	0.590	mg/kg D J	1.200
Iron	5510.000	mg/kg D -	7490.000
Lead	11.000	mg/kg D J	67.100
Magnesium	5370.000	mg/kg D -	10100.000
Manganese	282.000	mg/kg D J	330.000
Mercury	0.130	mg/kg D R	0.130
Molybdenum	8.900	mg/kg D -	9.400
Nickel	16.000	mg/kg D -	18.000
Potassium	961.000	mg/kg D -	1070.000
Selenium	2.800	mg/kg D -	2.900
Silver	5.900	mg/kg D -	8.300
Sodium	225.000	mg/kg D -	237.000
Thallium	0.510	mg/kg D U	0.560
Vanadium	28.700	mg/kg D -	27.700
Zinc	15.100	mg/kg D -	21.500
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	6.000	ug/kg D UJ	4.000
1,1,2,2-Tetrachloroethane	6.000	ug/kg D R	6.000
1,1,2-Trichloroethane	6.000	ug/kg D UJ	6.000
1,1-Dichloroethane	6.000	ug/kg D UJ	6.000
1,1-Dichloroethene	6.000	ug/kg D UJ	6.000
1,2-Dichloroethane	6.000	ug/kg D UJ	6.000
1,2-Dichloroethene	6.000	ug/kg D UJ	6.000
1,2-Dichloropropane	6.000	ug/kg D UJ	6.000
2-Butanone	13.000	ug/kg D UJ	13.000
2-Hexanone	13.000	ug/kg D R	13.000
4-Methyl-2-pentanone	13.000	ug/kg D R	13.000
Acetone	13.000	ug/kg D UJ	13.000
Benzene	6.000	ug/kg D UJ	6.000
Bromodichloromethane	6.000	ug/kg D UJ	6.000

TABLE E-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1708	1708	1708			
SAMPLE NUMBER	067096	067102	067112			
SAMPLING DATE	7.5-9 06/14/91	16.5-18 06/16/91	31.5-33 06/16/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromoform	6.000	ug/kg D UJ	6.000	ug/kg D UJ	6.000	ug/kg D U
Bromomethane	13.000	ug/kg D UJ	13.000	ug/kg D UJ	12.000	ug/kg D U
Carbon Tetrachloride	6.000	ug/kg D UJ	6.000	ug/kg D UJ	6.000	ug/kg D U
Carbon disulfide	6.000	ug/kg D UJ	6.000	ug/kg D UJ	6.000	ug/kg D U
Chlorobenzene	6.000	ug/kg D R	6.000	ug/kg D R	6.000	ug/kg D U
Chloroethane	13.000	ug/kg D UJ	13.000	ug/kg D UJ	12.000	ug/kg D U
Chloroform	6.000	ug/kg D UJ	6.000	ug/kg D UJ	6.000	ug/kg D U
Chloromethane	13.000	ug/kg D UJ	13.000	ug/kg D UJ	12.000	ug/kg D U
Dibromochloromethane	6.000	ug/kg D UJ	6.000	ug/kg D UJ	6.000	ug/kg D U
Ethylbenzene	6.000	ug/kg D R	6.000	ug/kg D R	6.000	ug/kg D U
Methylene chloride	15.000	ug/kg D UJ	6.000	ug/kg D UJ	6.000	ug/kg D U
Styrene	6.000	ug/kg D R	6.000	ug/kg D R	6.000	ug/kg D U
Tetrachloroethene	6.000	ug/kg D UJ	6.000	ug/kg D R	6.000	ug/kg D U
Toluene	3.000	ug/kg D UJ	6.000	ug/kg D R	6.000	ug/kg D U
Trichloroethene	6.000	ug/kg D UJ	6.000	ug/kg D UJ	6.000	ug/kg D U
Vinyl Acetate	13.000	ug/kg D UJ	13.000	ug/kg D UJ	12.000	ug/kg D U
Vinyl chloride	13.000	ug/kg D UJ	13.000	ug/kg D UJ	12.000	ug/kg D U
Xylenes, Total	6.000	ug/kg D R	6.000	ug/kg D R	6.000	ug/kg D U
cis-1,3-Dichloropropene	6.000	ug/kg D UJ	6.000	ug/kg D UJ	6.000	ug/kg D U
trans-1,3-Dichloropropene	6.000	ug/kg D UJ	6.000	ug/kg D UJ	6.000	ug/kg D U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
1,2-Dichlorobenzene	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
1,3-Dichlorobenzene	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
1,4-Dichlorobenzene	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
2,4,5-Trichlorophenol	4200.000	ug/kg D UJ	4500.000	ug/kg D U	4000.000	ug/kg D U
2,4,6-Trichlorophenol	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
2,4-Dichlorophenol	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
2,4-Dimethylphenol	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
2,4-Dinitrophenol	4200.000	ug/kg D UJ	4500.000	ug/kg D U	4000.000	ug/kg D U
2,4-Dinitrotoluene	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
2,6-Dinitrotoluene	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
2-Chloronaphthalene	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
2-Chlorophenol	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
2-Methylnaphthalene	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
2-Methylphenol	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
2-Nitroaniline	4200.000	ug/kg D UJ	4500.000	ug/kg D U	4000.000	ug/kg D U
2-Nitrophenol	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
3,3'-Dichlorobenzidine	1700.000	ug/kg D UJ	1900.000	ug/kg D U	1600.000	ug/kg D UJ
3-Nitroaniline	4200.000	ug/kg D UJ	4500.000	ug/kg D UJ	4000.000	ug/kg D UJ

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TABLE E-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1708	1708	1708			
SAMPLE NUMBER	067096	067102	067112			
SAMPLING DATE	7.5-9 06/14/91	16.5-18 06/16/91	31.5-33 06/16/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
4,6-Dinitro-2-methylphenol	4200.000	ug/kg D UJ	4500.000	ug/kg D U	4000.000	ug/kg D U
4-Bromophenyl phenyl ether	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
4-Chloro-3-methylphenol	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
4-Chlorophenylphenyl ether	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
4-Methylphenol	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
4-Nitroaniline	4200.000	ug/kg D UJ	4500.000	ug/kg D U	4000.000	ug/kg D UJ
4-Nitrophenol	4200.000	ug/kg D UJ	4500.000	ug/kg D U	4000.000	ug/kg D U
Acenaphthene	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
Acenaphthylene	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
Anthracene	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
Benzo(a)anthracene	110.000	ug/kg D J	930.000	ug/kg D U	820.000	ug/kg D U
Benzo(a)pyrene	130.000	ug/kg D J	930.000	ug/kg D U	820.000	ug/kg D U
Benzo(b)fluoranthene	360.000	ug/kg D J	930.000	ug/kg D U	820.000	ug/kg D U
Benzo(g,h,i)perylene	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
Benzo(k)fluoranthene	260.000	ug/kg D J	930.000	ug/kg D U	820.000	ug/kg D U
Benzoc acid	4200.000	ug/kg D UJ	97.000	ug/kg D J	4000.000	ug/kg D U
Benzyl alcohol	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
Butyl benzyl phthalate	860.000	ug/kg D UJ	930.000	ug/kg D UJ	820.000	ug/kg D U
Chrysene	150.000	ug/kg D J	930.000	ug/kg D U	820.000	ug/kg D U
Di-n-butyl phthalate	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
Di-n-octyl phthalate	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
Dibenzo(a,h)anthracene	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
Dibenzofuran	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
Diethyl phthalate	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
Dimethyl phthalate	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
Fluoranthene	94.000	ug/kg D J	930.000	ug/kg D U	820.000	ug/kg D U
Fluorene	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
Hexachlorobenzene	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
Hexachlorobutadiene	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
Hexachlorocyclopentadiene	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
Hexachloroethane	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
Indeno(1,2,3-cd)pyrene	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
Isophorone	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
N-Nitroso-di-n-propylamine	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
N-Nitrosodiphenylamine	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
Naphthalene	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
Nitrobenzene	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
Pentachlorophenol	4200.000	ug/kg D UJ	4500.000	ug/kg D U	4000.000	ug/kg D U
Phenanthrene	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
Phenol	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
Pyrene	120.000	ug/kg D J	930.000	ug/kg D U	820.000	ug/kg D U
bis(2-Chloroethoxy)methane	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U

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000095

TABLE E-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1708	1708	1708			
SAMPLE NUMBER	067096	067102	067112			
SAMPLING DATE	7.5-9 06/14/91	16.5-18 06/16/91	31.5-33 06/16/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
bis(2-Chloroethyl)ether	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
bis(2-Chloroisopropyl) ether	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
bis(2-Ethylhexyl) phthalate	860.000	ug/kg D UJ	930.000	ug/kg D UJ	820.000	ug/kg D U
p-Chloroaniline	860.000	ug/kg D UJ	930.000	ug/kg D U	820.000	ug/kg D U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	21.000	ug/kg D U	23.000	ug/kg D U	20.000	ug/kg D U
4,4'-DDE	21.000	ug/kg D U	23.000	ug/kg D U	20.000	ug/kg D U
4,4'-DDT	21.000	ug/kg D U	23.000	ug/kg D U	20.000	ug/kg D U
Aldrin	10.000	ug/kg D U	11.000	ug/kg D U	10.000	ug/kg D U
Aroclor-1016	100.000	ug/kg D U	110.000	ug/kg D U	100.000	ug/kg D U
Aroclor-1221	100.000	ug/kg D U	110.000	ug/kg D U	100.000	ug/kg D U
Aroclor-1232	100.000	ug/kg D U	110.000	ug/kg D U	100.000	ug/kg D U
Aroclor-1242	100.000	ug/kg D U	110.000	ug/kg D U	100.000	ug/kg D U
Aroclor-1248	100.000	ug/kg D U	110.000	ug/kg D U	100.000	ug/kg D U
Aroclor-1254	210.000	ug/kg D U	230.000	ug/kg D U	200.000	ug/kg D U
Aroclor-1260	210.000	ug/kg D U	230.000	ug/kg D U	200.000	ug/kg D U
Dieldrin	21.000	ug/kg D U	23.000	ug/kg D U	20.000	ug/kg D U
Endosulfan II	21.000	ug/kg D U	23.000	ug/kg D U	20.000	ug/kg D U
Endosulfan sulfate	21.000	ug/kg D U	23.000	ug/kg D U	20.000	ug/kg D U
Endosulfan-I	10.000	ug/kg D U	11.000	ug/kg D U	10.000	ug/kg D U
Endrin	21.000	ug/kg D U	23.000	ug/kg D U	20.000	ug/kg D U
Endrin ketone	21.000	ug/kg D U	23.000	ug/kg D U	20.000	ug/kg D U
Heptachlor	10.000	ug/kg D U	11.000	ug/kg D U	10.000	ug/kg D U
Heptachlor epoxide	10.000	ug/kg D U	11.000	ug/kg D U	10.000	ug/kg D U
Methoxychlor	100.000	ug/kg D U	110.000	ug/kg D U	100.000	ug/kg D U
Toxaphene	210.000	ug/kg D U	230.000	ug/kg D U	200.000	ug/kg D U
alpha-BHC	10.000	ug/kg D U	11.000	ug/kg D U	10.000	ug/kg D U
alpha-Chlordane	100.000	ug/kg D U	110.000	ug/kg D U	100.000	ug/kg D U
beta-BHC	10.000	ug/kg D U	11.000	ug/kg D U	10.000	ug/kg D U
delta-BHC	10.000	ug/kg D U	11.000	ug/kg D U	10.000	ug/kg D U
gamma-BHC (Lindane)	10.000	ug/kg D U	11.000	ug/kg D U	10.000	ug/kg D U
gamma-Chlordane	100.000	ug/kg D U	110.000	ug/kg D U	100.000	ug/kg D U

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TABLE E-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1709	1709	1710			
SAMPLE NUMBER	067064	067071	067029			
SAMPLING DATE	7.5-9 06/06/91	13.5-15 06/06/91	4.5-5 05/31/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Inorganics</u>						
Aluminum	4240.000	mg/kg D -	4400.000	mg/kg D -	6470.000	mg/kg D -
Antimony	7.800	mg/kg D R	7.400	mg/kg D R	8.400	mg/kg D R
Arsenic	16.300	mg/kg D -	74.800	mg/kg D -	31.700	mg/kg D -
Barium	286.000	mg/kg D -	252.000	mg/kg D -	637.000	mg/kg D -
Beryllium	3.900	mg/kg D -	4.300	mg/kg D -	6.700	mg/kg D -
Cadmium	0.520	mg/kg D U	0.490	mg/kg D U	0.780	mg/kg D -
Calcium	2790.000	mg/kg D -	2800.000	mg/kg D -	5880.000	mg/kg D -
Chromium	5.600	mg/kg D J	5.100	mg/kg D J	7.300	mg/kg D -
Cobalt	5.500	mg/kg D -	6.300	mg/kg D -	11.200	mg/kg D -
Copper	28.500	mg/kg D -	28.800	mg/kg D -	34.400	mg/kg D -
Cyanide	0.270	mg/kg D -	0.230	mg/kg D -	0.690	mg/kg D -
Iron	4610.000	mg/kg D -	5230.000	mg/kg D -	12100.000	mg/kg D -
Lead	6.700	mg/kg D J	9.000	mg/kg D J	13.100	mg/kg D J
Magnesium	383.000	mg/kg D -	439.000	mg/kg D -	978.000	mg/kg D J
Manganese	24.000	mg/kg D J	22.700	mg/kg D J	106.000	mg/kg D -
Mercury	0.130	mg/kg D UJ	0.120	mg/kg D UJ	0.140	mg/kg D UJ
Molybdenum	3.500	mg/kg D -	4.900	mg/kg D -	4.300	mg/kg D -
Nickel	10.800	mg/kg D -	12.000	mg/kg D -	19.600	mg/kg D -
Potassium	523.000	mg/kg D -	616.000	mg/kg D -	1030.000	mg/kg D -
Selenium	0.740	mg/kg D -	4.100	mg/kg D -	1.400	mg/kg D -
Silver	2.600	mg/kg D UJ	2.500	mg/kg D UJ	2.800	mg/kg D J
Sodium	158.000	mg/kg D -	179.000	mg/kg D -	294.000	mg/kg D -
Thallium	0.520	mg/kg D UJ	0.800	mg/kg D J	0.560	mg/kg D UJ
Vanadium	34.900	mg/kg D -	30.000	mg/kg D -	28.300	mg/kg D -
Zinc	9.400	mg/kg D -	52.400	mg/kg D -	14.500	mg/kg D -
<u>Volatile Organics</u>						
1,1,1-Trichloroethane	150.000	ug/kg D J	50.000	ug/kg D J	7.000	ug/kg D R
1,1,2,2-Tetrachloroethane	6.000	ug/kg D R	6.000	ug/kg D R	7.000	ug/kg D R
1,1,2-Trichloroethane	6.000	ug/kg D R	6.000	ug/kg D R	7.000	ug/kg D R
1,1-Dichloroethane	6.000	ug/kg D UJ	6.000	ug/kg D UJ	7.000	ug/kg D UJ
1,1-Dichloroethene	6.000	ug/kg D UJ	6.000	ug/kg D UJ	7.000	ug/kg D UJ
1,2-Dichloroethane	6.000	ug/kg D UJ	6.000	ug/kg D UJ	7.000	ug/kg D UJ
1,2-Dichloroethene	6.000	ug/kg D UJ	6.000	ug/kg D UJ	7.000	ug/kg D UJ
1,2-Dichloropropane	6.000	ug/kg D R	6.000	ug/kg D R	7.000	ug/kg D R
2-Butanone	13.000	ug/kg D UJ	13.000	ug/kg D UJ	14.000	ug/kg D R
2-Hexanone	13.000	ug/kg D R	13.000	ug/kg D R	14.000	ug/kg D R
4-Methyl-2-pentanone	13.000	ug/kg D R	13.000	ug/kg D R	2.000	ug/kg D J
Acetone	13.000	ug/kg D J	10.000	ug/kg D J	25.000	ug/kg D UJ
Benzene	6.000	ug/kg D R	6.000	ug/kg D R	7.000	ug/kg D R
Bromodichloromethane	6.000	ug/kg D R	6.000	ug/kg D R	7.000	ug/kg D R

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TABLE E-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1709			1709			1710					
SAMPLE NUMBER	067064			067071			067029					
	7.5-9			13.5-15			4.5-5					
SAMPLING DATE	06/06/91			06/06/91			05/31/91					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS			
<u>Volatile Organics</u>												
Bromoform	6.000	ug/kg	D	R	6.000	ug/kg	D	R	7.000	ug/kg	D	R
Bromomethane	13.000	ug/kg	D	UJ	13.000	ug/kg	D	UJ	14.000	ug/kg	D	UJ
Carbon Tetrachloride	6.000	ug/kg	D	R	6.000	ug/kg	D	R	7.000	ug/kg	D	R
Carbon disulfide	6.000	ug/kg	D	UJ	6.000	ug/kg	D	UJ	7.000	ug/kg	D	UJ
Chlorobenzene	6.000	ug/kg	D	R	6.000	ug/kg	D	R	7.000	ug/kg	D	R
Chloroethane	13.000	ug/kg	D	UJ	13.000	ug/kg	D	UJ	14.000	ug/kg	D	UJ
Chloroform	6.000	ug/kg	D	UJ	6.000	ug/kg	D	UJ	7.000	ug/kg	D	UJ
Chloromethane	13.000	ug/kg	D	UJ	13.000	ug/kg	D	UJ	14.000	ug/kg	D	UJ
Dibromochloromethane	6.000	ug/kg	D	R	6.000	ug/kg	D	R	7.000	ug/kg	D	R
Ethylbenzene	6.000	ug/kg	D	R	6.000	ug/kg	D	R	7.000	ug/kg	D	R
Methylene chloride	8.000	ug/kg	D	UJ	6.000	ug/kg	D	UJ	20.000	ug/kg	D	UJ
Styrene	6.000	ug/kg	D	R	6.000	ug/kg	D	R	7.000	ug/kg	D	R
Tetrachloroethene	6.000	ug/kg	D	R	6.000	ug/kg	D	R	7.000	ug/kg	D	R
Toluene	6.000	ug/kg	D	R	6.000	ug/kg	D	R	7.000	ug/kg	D	R
Trichloroethene	6.000	ug/kg	D	R	6.000	ug/kg	D	R	7.000	ug/kg	D	R
Vinyl Acetate	13.000	ug/kg	D	R	2.000	ug/kg	D	J	14.000	ug/kg	D	R
Vinyl chloride	13.000	ug/kg	D	UJ	13.000	ug/kg	D	UJ	14.000	ug/kg	D	UJ
Xylenes, Total	6.000	ug/kg	D	R	6.000	ug/kg	D	R	7.000	ug/kg	D	R
cis-1,3-Dichloropropene	6.000	ug/kg	D	R	6.000	ug/kg	D	R	7.000	ug/kg	D	R
trans-1,3-Dichloropropene	6.000	ug/kg	D	R	6.000	ug/kg	D	R	7.000	ug/kg	D	R
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	440.000	ug/kg	D	U	410.000	ug/kg	D	U	460.000	ug/kg	D	U
1,2-Dichlorobenzene	440.000	ug/kg	D	U	410.000	ug/kg	D	U	460.000	ug/kg	D	U
1,3-Dichlorobenzene	440.000	ug/kg	D	U	410.000	ug/kg	D	U	460.000	ug/kg	D	U
1,4-Dichlorobenzene	440.000	ug/kg	D	U	410.000	ug/kg	D	U	460.000	ug/kg	D	U
2,4,5-Trichlorophenol	2100.000	ug/kg	D	U	2000.000	ug/kg	D	U	2200.000	ug/kg	D	U
2,4,6-Trichlorophenol	440.000	ug/kg	D	U	410.000	ug/kg	D	U	460.000	ug/kg	D	U
2,4-Dichlorophenol	440.000	ug/kg	D	U	410.000	ug/kg	D	U	460.000	ug/kg	D	U
2,4-Dimethylphenol	440.000	ug/kg	D	U	410.000	ug/kg	D	U	460.000	ug/kg	D	U
2,4-Dinitrophenol	2100.000	ug/kg	D	UJ	2000.000	ug/kg	D	UJ	2200.000	ug/kg	D	UJ
2,4-Dinitrotoluene	440.000	ug/kg	D	U	410.000	ug/kg	D	U	460.000	ug/kg	D	U
2,6-Dinitrotoluene	440.000	ug/kg	D	U	410.000	ug/kg	D	U	460.000	ug/kg	D	U
2-Chloronaphthalene	440.000	ug/kg	D	U	410.000	ug/kg	D	U	460.000	ug/kg	D	U
2-Chlorophenol	440.000	ug/kg	D	U	410.000	ug/kg	D	U	460.000	ug/kg	D	U
2-Methylnaphthalene	440.000	ug/kg	D	U	410.000	ug/kg	D	U	460.000	ug/kg	D	U
2-Methylphenol	440.000	ug/kg	D	U	410.000	ug/kg	D	U	460.000	ug/kg	D	U
2-Nitroaniline	2100.000	ug/kg	D	U	2000.000	ug/kg	D	U	2200.000	ug/kg	D	U
2-Nitrophenol	440.000	ug/kg	D	U	410.000	ug/kg	D	U	460.000	ug/kg	D	U
3,3'-Dichlorobenzidine	870.000	ug/kg	D	UJ	830.000	ug/kg	D	U	920.000	ug/kg	D	U
3-Nitroaniline	2100.000	ug/kg	D	U	2000.000	ug/kg	D	UJ	2200.000	ug/kg	D	UJ

TABLE E-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1709	1709	1710			
SAMPLE NUMBER	067064	067071	067029			
SAMPLING DATE	7.5-9 06/06/91	13.5-15 06/06/91	4.5-5 05/31/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
4,6-Dinitro-2-methylphenol	2100.000	ug/kg D UJ	2000.000	ug/kg D U	2200.000	ug/kg D U
4-Bromophenyl phenyl ether	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
4-Chloro-3-methylphenol	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
4-Chlorophenylphenyl ether	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
4-Methylphenol	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
4-Nitroaniline	2100.000	ug/kg D UJ	2000.000	ug/kg D U	2200.000	ug/kg D U
4-Nitrophenol	2100.000	ug/kg D U	2000.000	ug/kg D U	2200.000	ug/kg D U
Acenaphthene	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Acenaphthylene	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Anthracene	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Benzo(a)anthracene	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Benzo(a)pyrene	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Benzo(b)fluoranthene	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Benzo(g,h,i)perylene	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Benzo(k)fluoranthene	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Benzoic acid	2100.000	ug/kg D UJ	2000.000	ug/kg D U	2200.000	ug/kg D U
Benzyl alcohol	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Butyl benzyl phthalate	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Chrysene	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Di-n-butyl phthalate	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Di-n-octyl phthalate	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Dibenzo(a,h)anthracene	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Dibenzofuran	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Diethyl phthalate	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Dimethyl phthalate	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Fluoranthene	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Fluorene	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Hexachlorobenzene	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Hexachlorobutadiene	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Hexachlorocyclopentadiene	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Hexachloroethane	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Indeno(1,2,3-cd)pyrene	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Isophorone	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
N-Nitroso-di-n-propylamine	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
N-Nitrosodiphenylamine	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Naphthalene	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Nitrobenzene	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Pentachlorophenol	2100.000	ug/kg D U	2000.000	ug/kg D U	2200.000	ug/kg D U
Phenanthrene	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Phenol	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
Pyrene	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
bis(2-Chloroethoxy)methane	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U

TABLE E-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1709	1709	1710			
SAMPLE NUMBER	067064	067071	067029			
SAMPLING DATE	7.5-9 06/06/91	13.5-15 06/06/91	4.5-5 05/31/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
bis(2-Chloroethyl)ether	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
bis(2-Chloroisopropyl) ether	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
bis(2-Ethylhexyl) phthalate	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
p-Chloroaniline	440.000	ug/kg D U	410.000	ug/kg D U	460.000	ug/kg D U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	21.000	ug/kg D U	20.000	ug/kg D U	23.000	ug/kg D U
4,4'-DDE	21.000	ug/kg D U	20.000	ug/kg D U	23.000	ug/kg D U
4,4'-DDT	21.000	ug/kg D U	20.000	ug/kg D U	23.000	ug/kg D U
Aldrin	11.000	ug/kg D U	10.000	ug/kg D U	11.000	ug/kg D U
Aroclor-1016	110.000	ug/kg D U	100.000	ug/kg D U	110.000	ug/kg D U
Aroclor-1221	110.000	ug/kg D U	100.000	ug/kg D U	110.000	ug/kg D U
Aroclor-1232	110.000	ug/kg D U	100.000	ug/kg D U	110.000	ug/kg D U
Aroclor-1242	110.000	ug/kg D U	100.000	ug/kg D U	110.000	ug/kg D U
Aroclor-1248	110.000	ug/kg D U	100.000	ug/kg D U	110.000	ug/kg D U
Aroclor-1254	210.000	ug/kg D U	200.000	ug/kg D U	230.000	ug/kg D U
Aroclor-1260	210.000	ug/kg D U	200.000	ug/kg D U	230.000	ug/kg D U
Dieldrin	21.000	ug/kg D U	20.000	ug/kg D U	23.000	ug/kg D U
Endosulfan II	21.000	ug/kg D U	20.000	ug/kg D U	23.000	ug/kg D U
Endosulfan sulfate	21.000	ug/kg D U	20.000	ug/kg D U	23.000	ug/kg D U
Endosulfan-I	11.000	ug/kg D U	10.000	ug/kg D U	11.000	ug/kg D U
Endrin	21.000	ug/kg D U	20.000	ug/kg D U	23.000	ug/kg D U
Endrin ketone	21.000	ug/kg D U	20.000	ug/kg D U	23.000	ug/kg D U
Heptachlor	11.000	ug/kg D U	10.000	ug/kg D U	11.000	ug/kg D U
Heptachlor epoxide	11.000	ug/kg D U	10.000	ug/kg D U	11.000	ug/kg D U
Methoxychlor	110.000	ug/kg D U	100.000	ug/kg D U	110.000	ug/kg D U
Toxaphene	210.000	ug/kg D U	200.000	ug/kg D U	230.000	ug/kg D U
alpha-BHC	11.000	ug/kg D U	10.000	ug/kg D U	11.000	ug/kg D U
alpha-Chlordane	110.000	ug/kg D U	100.000	ug/kg D U	110.000	ug/kg D U
beta-BHC	11.000	ug/kg D U	10.000	ug/kg D U	11.000	ug/kg D U
delta-BHC	11.000	ug/kg D U	10.000	ug/kg D U	11.000	ug/kg D U
gamma-BHC (Lindane)	11.000	ug/kg D U	10.000	ug/kg D U	11.000	ug/kg D U
gamma-Chlordane	110.000	ug/kg D U	100.000	ug/kg D U	110.000	ug/kg D U

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TABLE E-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1710	1710	1711
SAMPLE NUMBER	067032	067047	067012
SAMPLING DATE	9-10-5 05/31/91	28-5-30 06/01/91	4-5-6 05/29/91
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
Inorganics			
Aluminum	5210.000	mg/kg D -	2130.000
Antimony	8.000	mg/kg D R	15.000
Arsenic	20.700	mg/kg D -	3.000
Barium	892.000	mg/kg D -	13.100
Beryllium	2.400	mg/kg D -	0.560
Cadmium	1.000	mg/kg D -	4.100
Calcium	6700.000	mg/kg D -	123000.000
Chromium	5.800	mg/kg D -	5.600
Cobalt	12.100	mg/kg D -	5.200
Copper	26.600	mg/kg D -	21.300
Cyanide	0.620	mg/kg D -	0.420
Iron	20100.000	mg/kg D -	7170.000
Lead	11.700	mg/kg D J	6.400
Magnesium	809.000	mg/kg D J	25100.000
Manganese	411.000	mg/kg D -	319.000
Mercury	0.120	mg/kg D UJ	0.110
Molybdenum	3.400	mg/kg D -	3.600
Nickel	19.500	mg/kg D -	17.500
Potassium	821.000	mg/kg D -	473.000
Selenium	3.100	mg/kg D J	0.450
Silver	2.700	mg/kg D J	4.300
Sodium	271.000	mg/kg D -	211.000
Thallium	0.540	mg/kg D UJ	0.450
Vanadium	22.600	mg/kg D -	10.700
Zinc	12.200	mg/kg D -	25.800
Volatile Organics			
1,1,1-Trichloroethane	74.000	ug/kg D J	6.000
1,1,2,2-Tetrachloroethane	7.000	ug/kg D R	6.000
1,1,2-Trichloroethane	7.000	ug/kg D R	6.000
1,1-Dichloroethane	7.000	ug/kg D UJ	6.000
1,1-Dichloroethene	7.000	ug/kg D UJ	6.000
1,2-Dichloroethane	7.000	ug/kg D R	6.000
1,2-Dichloroethene	7.000	ug/kg D UJ	6.000
1,2-Dichloropropane	7.000	ug/kg D R	6.000
2-Butanone	13.000	ug/kg D R	11.000
2-Hexanone	7.000	ug/kg D R	11.000
4-Methyl-2-pentanone	13.000	ug/kg D R	1.000
Acetone	75.000	ug/kg D J	35.000
Benzene	7.000	ug/kg D R	6.000
Bromodichloromethane	7.000	ug/kg D R	6.000

TABLE E-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1710	1710	1711			
SAMPLE NUMBER	067032	067047	067012			
SAMPLING DATE	9-10.5	28.5-30	4.5-6			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromoform	7.000	ug/kg D R	6.000	ug/kg D U	6.000	ug/kg D R
Bromomethane	13.000	ug/kg D UJ	11.000	ug/kg D UJ	13.000	ug/kg D UJ
Carbon Tetrachloride	7.000	ug/kg D R	6.000	ug/kg D U	6.000	ug/kg D R
Carbon disulfide	7.000	ug/kg D UJ	6.000	ug/kg D UJ	6.000	ug/kg D UJ
Chlorobenzene	7.000	ug/kg D R	6.000	ug/kg D U	6.000	ug/kg D R
Chloroethane	13.000	ug/kg D UJ	11.000	ug/kg D U	13.000	ug/kg D UJ
Chloroform	7.000	ug/kg D R	6.000	ug/kg D U	6.000	ug/kg D UJ
Chloromethane	13.000	ug/kg D UJ	11.000	ug/kg D UJ	13.000	ug/kg D UJ
Dibromochloromethane	7.000	ug/kg D R	6.000	ug/kg D U	6.000	ug/kg D R
Ethylbenzene	7.000	ug/kg D R	6.000	ug/kg D U	6.000	ug/kg D R
Methylene chloride	10.000	ug/kg D UJ	12.000	ug/kg D UJ	6.000	ug/kg D UJ
Styrene	7.000	ug/kg D R	6.000	ug/kg D U	6.000	ug/kg D R
Tetrachloroethene	7.000	ug/kg D R	6.000	ug/kg D U	6.000	ug/kg D R
Toluene	7.000	ug/kg D R	6.000	ug/kg D U	6.000	ug/kg D R
Trichloroethene	7.000	ug/kg D R	6.000	ug/kg D U	6.000	ug/kg D R
Vinyl Acetate	13.000	ug/kg D R	11.000	ug/kg D U	13.000	ug/kg D R
Vinyl chloride	13.000	ug/kg D UJ	11.000	ug/kg D U	13.000	ug/kg D UJ
Xylenes, Total	7.000	ug/kg D R	6.000	ug/kg D U	6.000	ug/kg D R
cis-1,3-Dichloropropene	7.000	ug/kg D R	6.000	ug/kg D U	6.000	ug/kg D R
trans-1,3-Dichloropropene	7.000	ug/kg D R	6.000	ug/kg D U	6.000	ug/kg D R
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
1,2-Dichlorobenzene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
1,3-Dichlorobenzene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
1,4-Dichlorobenzene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
2,4,5-Trichlorophenol	2200.000	ug/kg D UJ	1800.000	ug/kg D U	2100.000	ug/kg D U
2,4,6-Trichlorophenol	450.000	ug/kg D UJ	370.000	ug/kg D U	430.000	ug/kg D U
2,4-Dichlorophenol	450.000	ug/kg D UJ	370.000	ug/kg D U	430.000	ug/kg D U
2,4-Dimethylphenol	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
2,4-Dinitrophenol	2200.000	ug/kg D UJ	1800.000	ug/kg D UJ	2100.000	ug/kg D UJ
2,4-Dinitrotoluene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
2,6-Dinitrotoluene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
2-Chloronaphthalene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
2-Chlorophenol	450.000	ug/kg D UJ	370.000	ug/kg D U	430.000	ug/kg D U
2-Methylnaphthalene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
2-Methylphenol	450.000	ug/kg D UJ	370.000	ug/kg D U	430.000	ug/kg D U
2-Nitroaniline	2200.000	ug/kg D U	1800.000	ug/kg D U	2100.000	ug/kg D U
2-Nitrophenol	450.000	ug/kg D UJ	370.000	ug/kg D U	430.000	ug/kg D U
3,3'-Dichlorobenzidine	900.000	ug/kg D U	750.000	ug/kg D U	870.000	ug/kg D U
3-Nitroaniline	2200.000	ug/kg D U	1800.000	ug/kg D UJ	2100.000	ug/kg D U

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201000

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TABLE E-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1710	1710	1711			
SAMPLE NUMBER	067032	067047	067012			
SAMPLING DATE	9-10.5 05/31/91	28.5-30 06/01/91	4.5-6 05/29/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
4,6-Dinitro-2-methylphenol	2200.000	ug/kg D UJ	1800.000	ug/kg D U	2100.000	ug/kg D UJ
4-Bromophenyl phenyl ether	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
4-Chloro-3-methylphenol	450.000	ug/kg D UJ	370.000	ug/kg D U	430.000	ug/kg D U
4-Chlorophenylphenyl ether	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
4-Methylphenol	450.000	ug/kg D UJ	370.000	ug/kg D U	430.000	ug/kg D U
4-Nitroaniline	2200.000	ug/kg D U	1800.000	ug/kg D U	2100.000	ug/kg D U
4-Nitrophenol	2200.000	ug/kg D UJ	1800.000	ug/kg D U	2100.000	ug/kg D U
Acenaphthene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Acenaphthylene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Anthracene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Benzo(a)anthracene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Benzo(a)pyrene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Benzo(b)fluoranthene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Benzo(g,h,i)perylene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Benzo(k)fluoranthene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Benzoic acid	2200.000	ug/kg D U	1800.000	ug/kg D UJ	2100.000	ug/kg D UJ
Benzyl alcohol	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Butyl benzyl phthalate	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Chrysene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
D1-n-butyl phthalate	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
D1-n-octyl phthalate	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Dibenz(a,h)anthracene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Dibenzofuran	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Diethyl phthalate	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Dimethyl phthalate	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Fluoranthene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Fluorene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Hexachlorobenzene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Hexachlorobutadiene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Hexachlorocyclopentadiene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Hexachloroethane	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Indeno(1,2,3-cd)pyrene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Isophorone	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
N-Nitroso-di-n-propylamine	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
N-Nitrosodiphenylamine	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Naphthalene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Nitrobenzene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Pentachlorophenol	2200.000	ug/kg D UJ	1800.000	ug/kg D U	2100.000	ug/kg D U
Phenanthrene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
Phenol	450.000	ug/kg D UJ	370.000	ug/kg D U	430.000	ug/kg D U
Pyrene	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
bis(2-Chloroethoxy)methane	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U

E618

000103

TABLE E-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1710	1710	1711			
SAMPLE NUMBER	067032	067047	067012			
SAMPLING DATE	9-10.5 05/31/91	28.5-30 06/01/91	4.5-6 05/29/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
bis(2-Chloroethyl)ether	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
bis(2-Chloroisopropyl) ether	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
bis(2-Ethylhexyl) phthalate	450.000	ug/kg D U	620.000	ug/kg D -	430.000	ug/kg D U
p-Chloroaniline	450.000	ug/kg D U	370.000	ug/kg D U	430.000	ug/kg D U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	22.000	ug/kg D U	37.000	ug/kg D U	21.000	ug/kg D U
4,4'-DDE	22.000	ug/kg D U	37.000	ug/kg D U	21.000	ug/kg D U
4,4'-DDT	22.000	ug/kg D U	37.000	ug/kg D U	21.000	ug/kg D U
Aldrin	11.000	ug/kg D U	18.000	ug/kg D U	11.000	ug/kg D U
Aroclor-1016	110.000	ug/kg D U	180.000	ug/kg D U	110.000	ug/kg D U
Aroclor-1221	110.000	ug/kg D U	180.000	ug/kg D U	110.000	ug/kg D U
Aroclor-1232	110.000	ug/kg D U	180.000	ug/kg D U	110.000	ug/kg D U
Aroclor-1242	110.000	ug/kg D U	180.000	ug/kg D U	110.000	ug/kg D U
Aroclor-1248	110.000	ug/kg D U	180.000	ug/kg D U	110.000	ug/kg D U
Aroclor-1254	220.000	ug/kg D U	370.000	ug/kg D U	210.000	ug/kg D U
Aroclor-1260	220.000	ug/kg D U	390.000	ug/kg D -	210.000	ug/kg D U
Dieldrin	22.000	ug/kg D U	37.000	ug/kg D U	21.000	ug/kg D U
Endosulfan II	22.000	ug/kg D U	37.000	ug/kg D U	21.000	ug/kg D U
Endosulfan sulfate	22.000	ug/kg D U	37.000	ug/kg D U	21.000	ug/kg D U
Endosulfan-I	11.000	ug/kg D U	18.000	ug/kg D U	11.000	ug/kg D U
Endrin	22.000	ug/kg D U	37.000	ug/kg D U	21.000	ug/kg D U
Endrin ketone	22.000	ug/kg D U	37.000	ug/kg D U	21.000	ug/kg D U
Heptachlor	11.000	ug/kg D U	18.000	ug/kg D U	11.000	ug/kg D U
Heptachlor epoxide	11.000	ug/kg D U	18.000	ug/kg D U	11.000	ug/kg D U
Methoxychlor	110.000	ug/kg D U	180.000	ug/kg D U	110.000	ug/kg D U
Toxaphene	220.000	ug/kg D U	370.000	ug/kg D U	210.000	ug/kg D U
alpha-BHC	11.000	ug/kg D U	18.000	ug/kg D U	11.000	ug/kg D U
alpha-Chlordane	110.000	ug/kg D U	180.000	ug/kg D U	110.000	ug/kg D U
beta-BHC	11.000	ug/kg D U	18.000	ug/kg D U	11.000	ug/kg D U
delta-BHC	11.000	ug/kg D U	18.000	ug/kg D U	11.000	ug/kg D U
gamma-BHC (Lindane)	11.000	ug/kg D U	18.000	ug/kg D U	11.000	ug/kg D U
gamma-Chlordane	110.000	ug/kg D U	180.000	ug/kg D U	110.000	ug/kg D U

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001004

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TABLE E-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1711	1711	1791			
SAMPLE NUMBER	067015	067020	067122			
SAMPLING DATE	9-10.5 05/29/91	18-19.5 05/29/91	28.5-30 06/25/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Inorganics</u>						
Aluminum	4970.000	mg/kg D -	8840.000	mg/kg D -	7210.000	mg/kg D -
Antimony	10.400	mg/kg D J	16.300	mg/kg D J	6.500	mg/kg D UJ
Arsenic	35.400	mg/kg D J	6.900	mg/kg D J	3.600	mg/kg D J
Barium	373.000	mg/kg D -	89.600	mg/kg D -	83.900	mg/kg D -
Beryllium	2.500	mg/kg D -	0.770	mg/kg D -	0.540	mg/kg D -
Cadmium	0.660	mg/kg D -	2.000	mg/kg D -	0.650	mg/kg D -
Calcium	2510.000	mg/kg D J	9090.000	mg/kg D J	7810.000	mg/kg D -
Chromium	8.400	mg/kg D -	19.100	mg/kg D -	13.100	mg/kg D -
Cobalt	5.700	mg/kg D -	10.500	mg/kg D -	9.400	mg/kg D -
Copper	24.100	mg/kg D -	44.900	mg/kg D -	12.100	mg/kg D -
Cyanide	0.530	mg/kg D -	0.180	mg/kg D -	NA	
Iron	6390.000	mg/kg D -	15900.000	mg/kg D -	13500.000	mg/kg D -
Lead	10.700	mg/kg D -	57.000	mg/kg D -	10.400	mg/kg D J
Magnesium	404.000	mg/kg D -	3930.000	mg/kg D -	4800.000	mg/kg D -
Manganese	41.800	mg/kg D -	261.000	mg/kg D -	602.000	mg/kg D J
Mercury	0.180	mg/kg D -	0.440	mg/kg D -	0.110	mg/kg D UJ
Molybdenum	4.000	mg/kg D -	3.300	mg/kg D -	8.100	mg/kg D -
Nickel	9.700	mg/kg D -	18.300	mg/kg D -	14.800	mg/kg D -
Potassium	704.000	mg/kg D -	966.000	mg/kg D -	1030.000	mg/kg D -
Selenium	2.700	mg/kg D -	0.730	mg/kg D J	0.490	mg/kg D U
Silver	2.900	mg/kg D UJ	4.400	mg/kg D -	2.800	mg/kg D J
Sodium	157.000	mg/kg D -	100.000	mg/kg D -	91.700	mg/kg D -
Thallium	1.000	mg/kg D -	0.550	mg/kg D U	0.490	mg/kg D U
Vanadium	33.500	mg/kg D -	21.700	mg/kg D -	16.700	mg/kg D -
Zinc	12.000	mg/kg D -	102.000	mg/kg D -	36.700	mg/kg D -
<u>Volatile Organics</u>						
1,1,1-Trichloroethane	35.000	ug/kg D J	7.000	ug/kg D U	6.000	ug/kg D U
1,1,2,2-Tetrachloroethane	7.000	ug/kg D R	7.000	ug/kg D U	6.000	ug/kg D U
1,1,2-Trichloroethane	7.000	ug/kg D R	7.000	ug/kg D U	6.000	ug/kg D U
1,1-Dichloroethane	7.000	ug/kg D UJ	7.000	ug/kg D U	6.000	ug/kg D U
1,1-Dichloroethene	7.000	ug/kg D UJ	7.000	ug/kg D U	6.000	ug/kg D U
1,2-Dichloroethane	7.000	ug/kg D UJ	7.000	ug/kg D U	6.000	ug/kg D U
1,2-Dichloroethene	7.000	ug/kg D UJ	7.000	ug/kg D U	6.000	ug/kg D U
1,2-Dichloropropane	7.000	ug/kg D R	7.000	ug/kg D U	6.000	ug/kg D U
2-Butanone	14.000	ug/kg D UJ	15.000	ug/kg D U	12.000	ug/kg D U
2-Hexanone	14.000	ug/kg D R	3.000	ug/kg D J	12.000	ug/kg D U
4-Methyl-2-pentanone	14.000	ug/kg D R	14.000	ug/kg D U	12.000	ug/kg D U
Acetone	19.000	ug/kg D UJ	68.000	ug/kg D J	61.000	ug/kg D U
Benzene	7.000	ug/kg D R	7.000	ug/kg D U	6.000	ug/kg D U
Bromodichloromethane	7.000	ug/kg D R	7.000	ug/kg D U	6.000	ug/kg D U

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000105

TABLE E-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1711	1711	1791	
SAMPLE NUMBER	067015	067020	067122	
SAMPLING DATE	9-10.5 05/29/91	18-19.5 05/29/91	28.5-30 06/25/91	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	
<u>Volatile Organics</u>				
Bromoform	7.000	ug/kg D R	7.000	ug/kg D U
Bromomethane	14.000	ug/kg D UJ	14.000	ug/kg D U
Carbon Tetrachloride	7.000	ug/kg D R	7.000	ug/kg D U
Carbon disulfide	20.000	ug/kg D J	7.000	ug/kg D U
Chlorobenzene	7.000	ug/kg D R	7.000	ug/kg D U
Chloroethane	14.000	ug/kg D UJ	14.000	ug/kg D U
Chloroform	7.000	ug/kg D UJ	7.000	ug/kg D U
Chloromethane	14.000	ug/kg D UJ	14.000	ug/kg D UJ
Dibromochloromethane	7.000	ug/kg D R	7.000	ug/kg D U
Ethylbenzene	7.000	ug/kg D R	7.000	ug/kg D U
Methylene chloride	25.000	ug/kg D UJ	8.000	ug/kg D U
Styrene	7.000	ug/kg D R	7.000	ug/kg D U
Tetrachloroethene	7.000	ug/kg D R	7.000	ug/kg D U
Toluene	3.000	ug/kg D J	7.000	ug/kg D U
Trichloroethene	7.000	ug/kg D R	7.000	ug/kg D U
Vinyl Acetate	14.000	ug/kg D R	14.000	ug/kg D U
Vinyl chloride	14.000	ug/kg D UJ	14.000	ug/kg D U
Xylenes, Total	7.000	ug/kg D R	7.000	ug/kg D U
cis-1,3-Dichloropropene	7.000	ug/kg D R	7.000	ug/kg D U
trans-1,3-Dichloropropene	7.000	ug/kg D R	7.000	ug/kg D U
<u>Semivolatile Organics</u>				
1,2,4-Trichlorobenzene	480.000	ug/kg D U	460.000	ug/kg D U
1,2-Dichlorobenzene	480.000	ug/kg D U	460.000	ug/kg D U
1,3-Dichlorobenzene	480.000	ug/kg D U	460.000	ug/kg D U
1,4-Dichlorobenzene	480.000	ug/kg D U	460.000	ug/kg D U
2,4,5-Trichlorophenol	2300.000	ug/kg D U	2200.000	ug/kg D U
2,4,6-Trichlorophenol	480.000	ug/kg D U	460.000	ug/kg D U
2,4-Dichlorophenol	480.000	ug/kg D U	460.000	ug/kg D U
2,4-Dimethylphenol	480.000	ug/kg D U	460.000	ug/kg D U
2,4-Dinitrophenol	2300.000	ug/kg D UJ	2200.000	ug/kg D UJ
2,4-Dinitrotoluene	480.000	ug/kg D U	460.000	ug/kg D U
2,6-Dinitrotoluene	480.000	ug/kg D U	460.000	ug/kg D U
2-Chloronaphthalene	480.000	ug/kg D U	460.000	ug/kg D U
2-Chlorophenol	480.000	ug/kg D U	460.000	ug/kg D U
2-Methylnaphthalene	480.000	ug/kg D U	460.000	ug/kg D U
2-Methylphenol	480.000	ug/kg D U	460.000	ug/kg D U
2-Nitroaniline	2300.000	ug/kg D U	2200.000	ug/kg D U
2-Nitrophenol	480.000	ug/kg D U	460.000	ug/kg D U
3,3'-Dichlorobenzidine	950.000	ug/kg D U	930.000	ug/kg D U
3-Nitroaniline	2300.000	ug/kg D U	2200.000	ug/kg D U

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0004006

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January 21, 1995

TABLE E-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1711	1711	1791			
SAMPLE NUMBER	067015	067020	067122			
SAMPLING DATE	9-10.5 05/29/91	18-19.5 05/29/91	28.5-30 06/25/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
4,6-Dinitro-2-methylphenol	2300.000	ug/kg D UJ	2200.000	ug/kg D UJ	4000.000	ug/kg D U
4-Bromophenyl phenyl ether	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
4-Chloro-3-methylphenol	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
4-Chlorophenylphenyl ether	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
4-Methylphenol	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
4-Nitroaniline	2300.000	ug/kg D U	2200.000	ug/kg D U	4000.000	ug/kg D U
4-Nitrophenol	2300.000	ug/kg D U	2200.000	ug/kg D U	4000.000	ug/kg D U
Acenaphthene	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Acenaphthylene	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Anthracene	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Benzo(a)anthracene	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Benzo(a)pyrene	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Benzo(b)fluoranthene	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Benzo(g,h,i)perylene	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Benzo(k)fluoranthene	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Benzoic acid	2300.000	ug/kg D UJ	150.000	ug/kg D J	4000.000	ug/kg D U
Benzyl alcohol	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Butyl benzyl phthalate	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Chrysene	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Di-n-butyl phthalate	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Di-n-octyl phthalate	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Dibenzo(a,h)anthracene	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Dibenzofuran	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Diethyl phthalate	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Dimethyl phthalate	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Fluoranthene	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Fluorene	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Hexachlorobenzene	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Hexachlorobutadiene	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Hexachlorocyclopentadiene	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Hexachloroethane	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Indeno(1,2,3-cd)pyrene	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Isophorone	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
N-Nitroso-di-n-propylamine	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
N-Nitrosodiphenylamine	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Naphthalene	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Nitrobenzene	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Pentachlorophenol	2300.000	ug/kg D U	2200.000	ug/kg D U	4000.000	ug/kg D U
Phenanthrene	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Phenol	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
Pyrene	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
bis(2-Chloroethoxy)methane	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U

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000107

TABLE E-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1711	1711	1791			
SAMPLE NUMBER	067015	067020	067122			
SAMPLING DATE	9-10.5 05/29/91	18-19.5 05/29/91	28.5-30 06/25/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
bis(2-Chloroethyl)ether	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
bis(2-Chloroisopropyl) ether	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D UJ
bis(2-Ethylhexyl) phthalate	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
p-Chloroaniline	480.000	ug/kg D U	460.000	ug/kg D U	820.000	ug/kg D U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	23.000	ug/kg D U	22.000	ug/kg D U	20.000	ug/kg D U
4,4'-DDE	23.000	ug/kg D U	22.000	ug/kg D U	20.000	ug/kg D U
4,4'-DDT	23.000	ug/kg D U	22.000	ug/kg D U	20.000	ug/kg D U
Aldrin	12.000	ug/kg D U	11.000	ug/kg D U	9.900	ug/kg D U
Aroclor-1016	120.000	ug/kg D U	110.000	ug/kg D U	99.000	ug/kg D U
Aroclor-1221	120.000	ug/kg D U	110.000	ug/kg D U	99.000	ug/kg D U
Aroclor-1232	120.000	ug/kg D U	110.000	ug/kg D U	99.000	ug/kg D U
Aroclor-1242	120.000	ug/kg D U	110.000	ug/kg D U	99.000	ug/kg D U
Aroclor-1248	120.000	ug/kg D U	110.000	ug/kg D U	99.000	ug/kg D U
Aroclor-1254	230.000	ug/kg D U	210.000	ug/kg D J	200.000	ug/kg D U
Aroclor-1260	230.000	ug/kg D U	220.000	ug/kg D U	200.000	ug/kg D U
Dieldrin	23.000	ug/kg D U	22.000	ug/kg D U	20.000	ug/kg D U
Endosulfan II	23.000	ug/kg D U	22.000	ug/kg D U	20.000	ug/kg D U
Endosulfan sulfate	14.000	ug/kg D U	22.000	ug/kg D U	20.000	ug/kg D U
Endosulfan-I	12.000	ug/kg D U	11.000	ug/kg D U	9.900	ug/kg D U
Endrin	23.000	ug/kg D U	22.000	ug/kg D U	20.000	ug/kg D U
Endrin ketone	23.000	ug/kg D U	22.000	ug/kg D U	20.000	ug/kg D U
Heptachlor	12.000	ug/kg D U	11.000	ug/kg D U	9.900	ug/kg D U
Heptachlor epoxide	12.000	ug/kg D U	11.000	ug/kg D U	9.900	ug/kg D U
Methoxychlor	120.000	ug/kg D U	110.000	ug/kg D U	99.000	ug/kg D U
Toxaphene	230.000	ug/kg D U	220.000	ug/kg D U	200.000	ug/kg D U
alpha-BHC	12.000	ug/kg D U	11.000	ug/kg D U	9.900	ug/kg D U
alpha-Chlordane	120.000	ug/kg D U	110.000	ug/kg D U	99.000	ug/kg D U
beta-BHC	12.000	ug/kg D U	11.000	ug/kg D U	9.900	ug/kg D U
delta-BHC	12.000	ug/kg D U	11.000	ug/kg D U	9.900	ug/kg D U
gamma-BHC (Lindane)	12.000	ug/kg D U	11.000	ug/kg D U	9.900	ug/kg D U
gamma-Chlordane	120.000	ug/kg D U	110.000	ug/kg D U	99.000	ug/kg D U

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000103

TABLE E-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1849	1849	1849		
SAMPLE NUMBER	067604	067609	067618		
SAMPLING DATE	6-7.5 02/22/92	13.5-15 02/22/92	28.5-30 02/22/92		
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS		
Volatile Organics					
1,1,1-Trichloroethane	18.000	ug/kg D J	170.000	ug/kg D J	NA
1,1,2,2-Tetrachloroethane	7.000	ug/kg D UJ	6.000	ug/kg D R	NA
1,1,2-Trichloroethane	7.000	ug/kg D UJ	6.000	ug/kg D R	NA
1,1-Dichloroethane	7.000	ug/kg D UJ	6.000	ug/kg D R	NA
1,1-Dichloroethene	7.000	ug/kg D UJ	6.000	ug/kg D R	NA
1,2-Dichloroethane	7.000	ug/kg D UJ	6.000	ug/kg D R	NA
1,2-Dichloroethene	7.000	ug/kg D UJ	6.000	ug/kg D R	NA
1,2-Dichloropropene	7.000	ug/kg D UJ	6.000	ug/kg D R	NA
2-Butanone	14.000	ug/kg D UJ	12.000	ug/kg D R	NA
2-Hexanone	14.000	ug/kg D UJ	26.000	ug/kg D R	NA
4-Methyl-2-pentanone	7.000	ug/kg D UJ	12.000	ug/kg D R	NA
Acetone	33.000	ug/kg D UJ	12.000	ug/kg D R	NA
Benzene	7.000	ug/kg D UJ	6.000	ug/kg D R	NA
Bromodichloromethane	7.000	ug/kg D UJ	6.000	ug/kg D R	NA
Bromoform	7.000	ug/kg D UJ	6.000	ug/kg D R	NA
Bromomethane	14.000	ug/kg D UJ	12.000	ug/kg D R	NA
Carbon Tetrachloride	7.000	ug/kg D UJ	6.000	ug/kg D R	NA
Carbon disulfide	7.000	ug/kg D UJ	6.000	ug/kg D R	NA
Chlorobenzene	7.000	ug/kg D UJ	6.000	ug/kg D R	NA
Chloroethane	14.000	ug/kg D UJ	12.000	ug/kg D R	NA
Chloroform	7.000	ug/kg D UJ	6.000	ug/kg D R	NA
Chloromethane	14.000	ug/kg D UJ	12.000	ug/kg D R	NA
Dibromochloromethane	7.000	ug/kg D UJ	6.000	ug/kg D R	NA
Ethylbenzene	7.000	ug/kg D UJ	6.000	ug/kg D R	NA
Methylene chloride	89.000	ug/kg D UJ	7.000	ug/kg D R	NA
Styrene	7.000	ug/kg D UJ	6.000	ug/kg D R	NA
Tetrachloroethene	7.000	ug/kg D UJ	6.000	ug/kg D R	NA
Toluene	20.000	ug/kg D J	13.000	ug/kg D J	NA
Trichloroethene	7.000	ug/kg D UJ	6.000	ug/kg D R	NA
Vinyl Acetate	14.000	ug/kg D UJ	12.000	ug/kg D R	NA
Vinyl chloride	14.000	ug/kg D UJ	12.000	ug/kg D R	NA
Xylenes, Total	7.000	ug/kg D UJ	6.000	ug/kg D R	NA
cis-1,3-Dichloropropene	7.000	ug/kg D UJ	6.000	ug/kg D R	NA
trans-1,3-Dichloropropene	7.000	ug/kg D UJ	6.000	ug/kg D R	NA
Semivolatile Organics					
1,2,4-Trichlorobenzene	460.000	ug/kg D U	420.000	ug/kg D U	NA
1,2-Dichlorobenzene	460.000	ug/kg D U	420.000	ug/kg D U	NA
1,3-Dichlorobenzene	460.000	ug/kg D U	420.000	ug/kg D U	NA
1,4-Dichlorobenzene	460.000	ug/kg D U	420.000	ug/kg D U	NA
2,4,5-Trichloropheno1	2200.000	ug/kg D U	2000.000	ug/kg D U	NA

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000109

TABLE E-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1849	1849	1849		
SAMPLE NUMBER	067604	067609	067618		
	6-7.5	13.5-15	28.5-30		
SAMPLING DATE	02/22/92	02/22/92	02/22/92		
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS		
<u>Semivolatile Organics</u>					
2,4,6-Trichlorophenol	460.000	ug/kg D U	420.000	ug/kg D U	NA
2,4-Dichlorophenol	460.000	ug/kg D U	420.000	ug/kg D U	NA
2,4-Dimethylphenol	460.000	ug/kg D U	420.000	ug/kg D U	NA
2,4-Dinitrophenol	2200.000	ug/kg D UJ	2000.000	ug/kg D UJ	NA
2,4-Dinitrotoluene	460.000	ug/kg D U	420.000	ug/kg D U	NA
2,6-Dinitrotoluene	460.000	ug/kg D U	420.000	ug/kg D U	NA
2-Chloronaphthalene	460.000	ug/kg D U	420.000	ug/kg D U	NA
2-Chlorophenol	460.000	ug/kg D U	420.000	ug/kg D U	NA
2-Methylnaphthalene	50.000	ug/kg D J	79.000	ug/kg D J	NA
2-Methylphenol	460.000	ug/kg D U	420.000	ug/kg D U	NA
2-Nitroaniline	2200.000	ug/kg D U	2000.000	ug/kg D U	NA
2-Nitrophenol	460.000	ug/kg D UJ	420.000	ug/kg D UJ	NA
3,3'-Dichlorobenzidine	930.000	ug/kg D UJ	830.000	ug/kg D UJ	NA
3-Nitroaniline	2200.000	ug/kg D U	2000.000	ug/kg D U	NA
4,6-Dinitro-2-methylphenol	2200.000	ug/kg D UJ	2000.000	ug/kg D UJ	NA
4-Bromophenyl phenyl ether	460.000	ug/kg D U	420.000	ug/kg D U	NA
4-Chloro-3-methylphenol	460.000	ug/kg D U	420.000	ug/kg D U	NA
4-Chlorophenylphenyl ether	460.000	ug/kg D U	420.000	ug/kg D U	NA
4-Methylphenol	460.000	ug/kg D U	420.000	ug/kg D U	NA
4-Nitroaniline	2200.000	ug/kg D U	2000.000	ug/kg D U	NA
4-Nitrophenol	2200.000	ug/kg D UJ	2000.000	ug/kg D UJ	NA
Acenaphthene	460.000	ug/kg D U	420.000	ug/kg D U	NA
Acenaphthylene	460.000	ug/kg D U	420.000	ug/kg D U	NA
Anthracene	460.000	ug/kg D U	420.000	ug/kg D U	NA
Benzo(a)anthracene	460.000	ug/kg D U	420.000	ug/kg D U	NA
Benzo(a)pyrene	460.000	ug/kg D U	420.000	ug/kg D U	NA
Benzo(b)fluoranthene	460.000	ug/kg D U	420.000	ug/kg D U	NA
Benzo(g,h,i)perylene	460.000	ug/kg D U	420.000	ug/kg D U	NA
Benzo(k)fluoranthene	460.000	ug/kg D U	420.000	ug/kg D U	NA
Benzoic acid	2200.000	ug/kg D U	2000.000	ug/kg D UJ	NA
Benzyl alcohol	460.000	ug/kg D U	420.000	ug/kg D UJ	NA
Butyl benzyl phthalate	460.000	ug/kg D U	420.000	ug/kg D U	NA
Chrysene	460.000	ug/kg D U	420.000	ug/kg D U	NA
Di-n-butyl phthalate	460.000	ug/kg D U	46.000	ug/kg D J	NA
Di-n-octyl phthalate	460.000	ug/kg D U	420.000	ug/kg D U	NA
Dibenzo(a,h)anthracene	460.000	ug/kg D U	420.000	ug/kg D U	NA
Dibenzofuran	460.000	ug/kg D U	420.000	ug/kg D U	NA
Diethyl phthalate	460.000	ug/kg D U	420.000	ug/kg D U	NA
Dimethyl phthalate	460.000	ug/kg D U	420.000	ug/kg D U	NA
Fluoranthene	460.000	ug/kg D U	420.000	ug/kg D U	NA
Fluorene	460.000	ug/kg D U	420.000	ug/kg D U	NA
Hexachlorobenzene	460.000	ug/kg D U	420.000	ug/kg D U	NA

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TABLE E-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1849	1849	1849
SAMPLE NUMBER	067604	067609	067618
SAMPLING DATE	6-7-5 02/22/92	13.5-15 02/22/92	28.5-30 02/22/92
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
Hexachlorobutadiene	460.000	ug/kg D U	420.000
Hexachlorocyclopentadiene	460.000	ug/kg D UJ	420.000
Hexachloroethane	460.000	ug/kg D U	420.000
Indeno(1,2,3-cd)pyrene	460.000	ug/kg D U	420.000
Isophorone	460.000	ug/kg D U	420.000
N-Nitroso-di-n-propylamine	460.000	ug/kg D U	420.000
N-Nitrosodiphenylamine	460.000	ug/kg D U	420.000
Naphthalene	460.000	ug/kg D U	53.000
Nitrobenzene	460.000	ug/kg D U	420.000
Pentachlorophenol	2200.000	ug/kg D U	2000.000
Phenanthrene	460.000	ug/kg D U	420.000
Phenol	460.000	ug/kg D U	420.000
Pyrene	460.000	ug/kg D U	420.000
bis(2-Chloroethoxy)methane	460.000	ug/kg D U	420.000
bis(2-Chloroethyl)ether	460.000	ug/kg D U	420.000
bis(2-Chloroisopropyl) ether	460.000	ug/kg D U	420.000
bis(2-Ethylhexyl) phthalate	460.000	ug/kg D U	420.000
p-Chloroaniline	460.000	ug/kg D U	420.000
<u>General Chemistry</u>			
Total Organic Carbon	192011.000	mg/kg C -	186725.000
			mg/kg C -
			11500.000
			mg/kg C -

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TABLE E-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1850	1850	1850		
SAMPLE NUMBER	067627	067632	067633		
SAMPLING DATE	6-7.5 02/23/92	13.5-15 02/23/92	15-16.5 02/23/92		
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS		
Volatile Organics					
1,1,1-Trichloroethane	69.000	ug/kg D R	37.000	ug/kg D J	NA
1,1,2,2-Tetrachloroethane	6.000	ug/kg D R	6.000	ug/kg D R	NA
1,1,2-Trichloroethane	6.000	ug/kg D R	6.000	ug/kg D R	NA
1,1-Dichloroethane	6.000	ug/kg D R	6.000	ug/kg D R	NA
1,1-Dichloroethene	6.000	ug/kg D R	6.000	ug/kg D R	NA
1,2-Dichloroethane	6.000	ug/kg D R	6.000	ug/kg D R	NA
1,2-Dichloroethene	6.000	ug/kg D R	6.000	ug/kg D R	NA
1,2-Dichloropropane	6.000	ug/kg D R	6.000	ug/kg D R	NA
2-Butanone	12.000	ug/kg D R	12.000	ug/kg D R	NA
2-Hexanone	12.000	ug/kg D R	12.000	ug/kg D R	NA
4-Methyl-2-pentanone	12.000	ug/kg D R	12.000	ug/kg D R	NA
Acetone	2.000	ug/kg D R	12.000	ug/kg D R	NA
Benzene	6.000	ug/kg D R	6.000	ug/kg D R	NA
Bromodichloromethane	6.000	ug/kg D R	6.000	ug/kg D R	NA
Bromoform	6.000	ug/kg D R	6.000	ug/kg D R	NA
Bromomethane	12.000	ug/kg D R	12.000	ug/kg D R	NA
Carbon Tetrachloride	6.000	ug/kg D R	6.000	ug/kg D R	NA
Carbon disulfide	6.000	ug/kg D R	6.000	ug/kg D R	NA
Chlorobenzene	6.000	ug/kg D R	6.000	ug/kg D R	NA
Chloroethane	12.000	ug/kg D R	12.000	ug/kg D R	NA
Chloroform	6.000	ug/kg D R	6.000	ug/kg D R	NA
Chloromethane	12.000	ug/kg D R	12.000	ug/kg D R	NA
Dibromochloromethane	6.000	ug/kg D R	6.000	ug/kg D R	NA
Ethylbenzene	6.000	ug/kg D R	6.000	ug/kg D R	NA
Methylene chloride	19.000	ug/kg D R	14.000	ug/kg D R	NA
Styrene	2.000	ug/kg D J	6.000	ug/kg D R	NA
Tetrachloroethene	6.000	ug/kg D R	6.000	ug/kg D R	NA
Toluene	38.000	ug/kg D J	110.000	ug/kg D J	NA
Trichloroethene	6.000	ug/kg D R	6.000	ug/kg D R	NA
Vinyl Acetate	12.000	ug/kg D R	12.000	ug/kg D R	NA
Vinyl chloride	12.000	ug/kg D R	12.000	ug/kg D R	NA
Xylenes, Total	6.000	ug/kg D R	6.000	ug/kg D R	NA
cis-1,3-Dichloropropene	6.000	ug/kg D R	6.000	ug/kg D R	NA
trans-1,3-Dichloropropene	6.000	ug/kg D R	6.000	ug/kg D R	NA
Semivolatile Organics					
1,2,4-Trichlorobenzene	410.000	ug/kg D U	400.000	ug/kg D U	NA
1,2-Dichlorobenzene	410.000	ug/kg D U	400.000	ug/kg D U	NA
1,3-Dichlorobenzene	410.000	ug/kg D U	400.000	ug/kg D U	NA
1,4-Dichlorobenzene	410.000	ug/kg D U	400.000	ug/kg D U	NA
2,4,5-Trichlorophenol	2000.000	ug/kg D U	1900.000	ug/kg D U	NA

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TABLE E-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1850	1850	1850		
SAMPLE NUMBER	067627	067632	067633		
SAMPLING DATE	6-7.5 02/23/92	13.5-15 02/23/92	15-16.5 02/23/92		
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS		
<u>Semivolatile Organics</u>					
2,4,6-Trichlorophenol	410.000	ug/kg D U	400.000	ug/kg D U	NA
2,4-Dichlorophenol	410.000	ug/kg D U	400.000	ug/kg D U	NA
2,4-Dimethylphenol	410.000	ug/kg D U	400.000	ug/kg D U	NA
2,4-Dinitrophenol	2000.000	ug/kg D U	1900.000	ug/kg D U	NA
2,4-Dinitrotoluene	410.000	ug/kg D U	400.000	ug/kg D U	NA
2,6-Dinitrotoluene	410.000	ug/kg D U	400.000	ug/kg D U	NA
2-Chloronaphthalene	410.000	ug/kg D U	400.000	ug/kg D U	NA
2-Chlorophenol	410.000	ug/kg D U	400.000	ug/kg D U	NA
2-Methylnaphthalene	89.000	ug/kg D J	66.000	ug/kg D J	NA
2-Methylphenol	410.000	ug/kg D U	400.000	ug/kg D U	NA
2-Nitroaniline	2000.000	ug/kg D UJ	1900.000	ug/kg D UU	NA
2-Nitrophenol	410.000	ug/kg D UJ	400.000	ug/kg D UJ	NA
3,3'-Dichlorobenzidine	810.000	ug/kg D UJ	800.000	ug/kg D UJ	NA
3-Nitroaniline	2000.000	ug/kg D UU	1900.000	ug/kg D O	NA
4,6-Dinitro-2-methylphenol	2000.000	ug/kg D UU	1900.000	ug/kg D UU	NA
4-Bromophenyl phenyl ether	410.000	ug/kg D UU	400.000	ug/kg D UU	NA
4-Chloro-3-methylphenol	410.000	ug/kg D UU	400.000	ug/kg D UU	NA
4-Chlorophenylphenyl ether	410.000	ug/kg D UU	400.000	ug/kg D UU	NA
4-Methylphenol	410.000	ug/kg D UU	400.000	ug/kg D UU	NA
4-Nitroaniline	2000.000	ug/kg D UU	1900.000	ug/kg D UU	NA
4-Nitrophenol	2000.000	ug/kg D UJ	1900.000	ug/kg D UJ	NA
Acenaphthene	410.000	ug/kg D U	400.000	ug/kg D U	NA
Acenaphthylene	410.000	ug/kg D U	400.000	ug/kg D U	NA
Anthracene	49.000	ug/kg D J	400.000	ug/kg D O	NA
Benzo(a)anthracene	410.000	ug/kg D UU	400.000	ug/kg D UU	NA
Benzo(a)pyrene	410.000	ug/kg D UU	400.000	ug/kg D UU	NA
Benzo(b)fluoranthene	410.000	ug/kg D UU	400.000	ug/kg D UU	NA
Benzo(g,h,i)perylene	410.000	ug/kg D UU	400.000	ug/kg D UU	NA
Benzo(k)fluoranthene	410.000	ug/kg D UU	400.000	ug/kg D UU	NA
Benzoic acid	2000.000	ug/kg D UU	1900.000	ug/kg D UU	NA
Benzyl alcohol	410.000	ug/kg D UU	400.000	ug/kg D UU	NA
Butyl benzyl phthalate	410.000	ug/kg D UU	400.000	ug/kg D UU	NA
Chrysene	410.000	ug/kg D UU	400.000	ug/kg D UU	NA
Di-n-butyl phthalate	410.000	ug/kg D UU	400.000	ug/kg D UU	NA
Di-n-octyl phthalate	410.000	ug/kg D UU	400.000	ug/kg D UU	NA
Dibenzo(a,h)anthracene	410.000	ug/kg D UU	400.000	ug/kg D UU	NA
Dibenzofuran	410.000	ug/kg D UU	400.000	ug/kg D UU	NA
Diethyl phthalate	410.000	ug/kg D UU	400.000	ug/kg D UU	NA
Dimethyl phthalate	410.000	ug/kg D UU	400.000	ug/kg D UU	NA
Fluoranthene	410.000	ug/kg D UU	400.000	ug/kg D UU	NA
Fluorene	410.000	ug/kg D UU	400.000	ug/kg D UU	NA
Hexachlorobenzene	410.000	ug/kg D U	400.000	ug/kg D U	NA

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TABLE E-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1850	1850	1850
SAMPLE NUMBER	067627	067632	067633
SAMPLING DATE	6-7-5 02/23/92	13.5-15 02/23/92	15-16.5 02/23/92
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
Hexachlorobutadiene	410.000	ug/kg D U	400.000
Hexachlorocyclopentadiene	410.000	ug/kg D U	400.000
Hexachloroethane	410.000	ug/kg D U	400.000
Indeno(1,2,3-cd)pyrene	410.000	ug/kg D U	400.000
Isophorone	410.000	ug/kg D U	400.000
N-Nitroso-di-n-propylamine	410.000	ug/kg D U	400.000
N-Nitrosodiphenylamine	410.000	ug/kg D U	400.000
Naphthalene	53.000	ug/kg D J	400.000
Nitrobenzene	410.000	ug/kg D U	400.000
Pentachlorophenol	2000.000	ug/kg D U	1900.000
Phenanthrene	49.000	ug/kg D J	41.000
Phenol	410.000	ug/kg D U	400.000
Pyrene	410.000	ug/kg D U	400.000
bis(2-Chloroethoxy)methane	410.000	ug/kg D U	400.000
bis(2-Chloroethyl)ether	410.000	ug/kg D U	400.000
bis(2-Chloroisopropyl) ether	410.000	ug/kg D U	400.000
bis(2-Ethylhexyl) phthalate	410.000	ug/kg D U	400.000
p-Chloroaniline	410.000	ug/kg D U	400.000
<u>General Chemistry</u>			
Total Organic Carbon	173349.000	mg/kg C -	56753.000
			mg/kg C -
			7840.000
			mg/kg C -

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000114

TABLE E-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	11006			11051			11051		
SAMPLE NUMBER	113492	pc ¹ /g	UJ	116438	pc ¹ /g	J	116441	pc ¹ /g	J
SAMPLING DATE	22.5 - 24			21 - 22			22 - 24		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.161	pc ¹ /g	UJ	0.290	pc ¹ /g	UJ	0.230	pc ¹ /g	UJ
GROSS ALPHA	1132.000	pc ¹ /g	J	2030.000	pc ¹ /g	J	1490.000	pc ¹ /g	J
GROSS BETA	825.000	pc ¹ /g	J	1810.000	pc ¹ /g	-	1210.000	pc ¹ /g	-
NP-237	0.118	pc ¹ /g	N	37.300	pc ¹ /g	N	1.910	pc ¹ /g	N
PU-238	0.043	pc ¹ /g	UJ	1.850	pc ¹ /g	J	0.430	pc ¹ /g	J
PU-239/240	0.030	pc ¹ /g	UJ	1.770	pc ¹ /g	J	0.380	pc ¹ /g	J
RA-226	9.740	pc ¹ /g	-	37.800	pc ¹ /g	-	42.300	pc ¹ /g	-
RA-228	1.230	pc ¹ /g	-	3.040	pc ¹ /g	-	2.290	pc ¹ /g	-
RU-106	1.300	pc ¹ /g	UJ	2.540	pc ¹ /g	UJ	1.980	pc ¹ /g	UJ
SR-90	0.192	pc ¹ /g	UJ	0.860	pc ¹ /g	J	0.150	pc ¹ /g	UJ
TC-99	0.472	pc ¹ /g	UJ	0.460	pc ¹ /g	UJ	0.390	pc ¹ /g	UJ
TH-228	1.030	pc ¹ /g	-	2.440	pc ¹ /g	-	1.380	pc ¹ /g	-
TH-230	1.110	pc ¹ /g	-	121.000	pc ¹ /g	-	74.900	pc ¹ /g	-
TH-232	1.120	pc ¹ /g	-	2.540	pc ¹ /g	-	1.770	pc ¹ /g	-
TH-TOTAL	10.300	mg/kg	-	23.100	mg/kg	-	16.100	mg/kg	-
U-234	771.000	pc ¹ /g	-	1380.000	pc ¹ /g	-	726.000	pc ¹ /g	-
U-235/236	49.100	pc ¹ /g	-	68.800	pc ¹ /g	-	35.500	pc ¹ /g	-
U-238	803.000	pc ¹ /g	-	1570.000	pc ¹ /g	-	763.000	pc ¹ /g	-
U-TOTAL	1714.000	mg/kg	-	3580.000	mg/kg	-	2280.000	mg/kg	-

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000115

TABLE E-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	11052	116427	1994	1994					
SAMPLE NUMBER			116264	116283					
SAMPLING DATE	19 - 21	05/25/93	2 - 3.5	14 - 15.5					
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS					
CS-137	0.110	pCi/g	UJ	0.950	pCi/g	UJ	0.101	pCi/g	UJ
GROSS ALPHA	214.000	pCi/g	J	43.600	pCi/g	J	36.700	pCi/g	J
GROSS BETA	166.000	pCi/g	J	39.400	pCi/g	J	35.100	pCi/g	J
NP-237	0.310	pCi/g	N	0.830	pCi/g	NV	0.820	pCi/g	NV
PU-238	0.024	pCi/g	U	0.080	pCi/g	J	0.082	pCi/g	UJ
PU-239/240	0.038	pCi/g	J	0.024	pCi/g	UJ	0.072	pCi/g	UJ
RA-226	4.060	pCi/g	-	2.960	pCi/g	-	2.800	pCi/g	-
RA-228	1.600	pCi/g	-	2.970	pCi/g	-	2.650	pCi/g	-
RU-106	1.000	pCi/g	UJ	0.826	pCi/g	UJ	0.877	pCi/g	UJ
SR-90	0.260	pCi/g	J	0.244	pCi/g	UJ	0.230	pCi/g	3J
TC-99	0.373	pCi/g	UJ	0.381	pCi/g	UJ	0.207	pCi/g	UJ
TH-228	1.410	pCi/g	-	3.080	pCi/g	-	2.620	pCi/g	-
TH-230	8.020	pCi/g	-	2.950	pCi/g	-	2.910	pCi/g	-
TH-232	1.350	pCi/g	-	2.650	pCi/g	-	2.540	pCi/g	-
TH-TOTAL	12.300	mg/kg	-	24.100	mg/kg	-	23.100	mg/kg	-
U-234	106.500	pCi/g	J	3.950	pCi/g	-	1.330	pCi/g	-
U-235/236	5.760	pCi/g	J	0.162	pCi/g	J	0.037	pCi/g	J
U-238	115.800	pCi/g	J	3.860	pCi/g	-	1.540	pCi/g	-
U-TOTAL	294.000	mg/kg	-	12.800	mg/kg	-	13.300	mg/kg	-

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TABLE E-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
SAMPLE NUMBER	1994 116301 26 - 27.5 05/13/93			1994 116312 36 - 37.5 05/13/93			1995 116080 2 - 3.5 05/01/93		
RADIOLOGICAL PARAMETERS									
CS-137	0.094	pCi/g	UJ	0.071	pCi/g	UJ	0.079	pCi/g	J
GROSS ALPHA	71.400	pCi/g	J	12.800	pCi/g	J	159.910	pCi/g	-
GROSS BETA	66.900	pCi/g	J	12.900	pCi/g	J	118.040	pCi/g	-
NP-237	0.228	pCi/g	N	0.033	pCi/g	R	0.502	pCi/g	N
PU-238	0.082	pCi/g	J	0.122	pCi/g	J	0.219	pCi/g	J
PU-239/240	0.042	pCi/g	UJ	0.035	pCi/g	J	0.103	pCi/g	J
RA-226	3.150	pCi/g	-	0.560	pCi/g	-	1.710	pCi/g	-
RA-228	1.800	pCi/g	-	0.442	pCi/g	UJ	2.720	pCi/g	-
RU-106	0.727	pCi/g	UJ	0.654	pCi/g	UJ	0.870	pCi/g	UJ
SR-90	0.230	pCi/g	UJ	0.208	pCi/g	UJ	0.470	pCi/g	J
TC-99	0.360	pCi/g	UJ	0.352	pCi/g	UJ	0.360	pCi/g	UJ
TH-228	1.320	pCi/g	-	0.308	pCi/g	J	2.610	pCi/g	-
TH-230	5.190	pCi/g	-	0.893	pCi/g	-	5.170	pCi/g	-
TH-232	1.140	pCi/g	-	0.264	pCi/g	J	2.510	pCi/g	-
TH-TOTAL	10.400	mg/kg	-	2.410	mg/kg	-	22.900	mg/kg	-
U-234	17.900	pCi/g	-	0.501	pCi/g	-	61.900	pCi/g	-
U-235/236	1.050	pCi/g	-	0.030	pCi/g	J	2.910	pCi/g	-
U-238	20.700	pCi/g	-	0.471	pCi/g	J	62.700	pCi/g	-
U-TOTAL	50.700	mg/kg	-	3.440	mg/kg	J	187.000	mg/kg	-

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0001127

TABLE E-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1995			1995			1996		
SAMPLE NUMBER	116090	pc ⁻¹ /g	UJ	116172	pc ⁻¹ /g	-	112073	pc ⁻¹ /g	-
SAMPLING DATE	8 - 9			30 - 31.5	pc ⁻¹ /g	-	2 - 4	pc ⁻¹ /g	N
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.083	pc ⁻¹ /g	UJ	0.085	pc ⁻¹ /g	UJ	0.104	pc ⁻¹ /g	J
GROSS ALPHA	41.980	pc ⁻¹ /g	-	10.200	pc ⁻¹ /g	-	58.630	pc ⁻¹ /g	-
GROSS BETA	40.860	pc ⁻¹ /g	-	15.830	pc ⁻¹ /g	-	56.470	pc ⁻¹ /g	-
NP-237	2.540	pc ⁻¹ /g	NV	0.137	pc ⁻¹ /g	N	0.490	pc ⁻¹ /g	N
PU-238	2.260	pc ⁻¹ /g	NV	0.031	pc ⁻¹ /g	J	0.260	pc ⁻¹ /g	J
PU-239/240	1.560	pc ⁻¹ /g	NV	0.165	pc ⁻¹ /g	J	0.130	pc ⁻¹ /g	J
RA-226	3.180	pc ⁻¹ /g	-	1.010	pc ⁻¹ /g	-	2.860	pc ⁻¹ /g	-
RA-228	2.590	pc ⁻¹ /g	-	0.720	pc ⁻¹ /g	-	2.340	pc ⁻¹ /g	-
RU-106	0.660	pc ⁻¹ /g	UJ	0.740	pc ⁻¹ /g	UJ	0.980	pc ⁻¹ /g	UJ
SR-90	0.500	pc ⁻¹ /g	UJ	0.430	pc ⁻¹ /g	UJ	0.540	pc ⁻¹ /g	UJ
TC-99	0.360	pc ⁻¹ /g	UJ	0.350	pc ⁻¹ /g	UJ	0.390	pc ⁻¹ /g	UJ
TH-228	2.260	pc ⁻¹ /g	J	0.833	pc ⁻¹ /g	J	2.090	pc ⁻¹ /g	-
TH-230	4.140	pc ⁻¹ /g	J	1.620	pc ⁻¹ /g	J	4.070	pc ⁻¹ /g	-
TH-232	1.940	pc ⁻¹ /g	J	0.613	pc ⁻¹ /g	J	1.900	pc ⁻¹ /g	-
TH-TOTAL	17.700	mg/kg	J	5.580	mg/kg	J	17.300	mg/kg	-
U-234	2.630	pc ⁻¹ /g	-	0.490	pc ⁻¹ /g	J	14.550	pc ⁻¹ /g	-
U-235/236	0.130	pc ⁻¹ /g	J	0.052	pc ⁻¹ /g	J	0.740	pc ⁻¹ /g	-
U-238	2.600	pc ⁻¹ /g	-	0.690	pc ⁻¹ /g	-	14.560	pc ⁻¹ /g	-
U-TOTAL	8.610	mg/kg	-	3.410	mg/kg	-	48.300	mg/kg	-

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TABLE E-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1996			1996			1996		
SAMPLE NUMBER	112077	pc ⁻¹ /g	UJ	112082	pc ⁻¹ /g	J	116070	pc ⁻¹ /g	-
SAMPLING DATE	8 - 9.5			13 - 13.5			20 - 21.5		
RADIOLOGICAL PARAMETERS									
	RESULTS	UNITS	VQ		RESULTS	UNITS	VQ	RESULTS	UNITS
CS-137	0.110	pc ⁻¹ /g	UJ		0.094	pc ⁻¹ /g	UJ	0.075	pc ⁻¹ /g
GROSS ALPHA	46.600	pc ⁻¹ /g	J		27.200	pc ⁻¹ /g	J	17.780	pc ⁻¹ /g
GROSS BETA	31.000	pc ⁻¹ /g	J		30.700	pc ⁻¹ /g	J	12.410	pc ⁻¹ /g
NP-237	0.480	pc ⁻¹ /g	N		0.270	pc ⁻¹ /g	N	0.086	pc ⁻¹ /g
PU-238	0.200	pc ⁻¹ /g	J		0.310	pc ⁻¹ /g	J	0.051	pc ⁻¹ /g
PU-239/240	0.120	pc ⁻¹ /g	J		0.160	pc ⁻¹ /g	J	0.070	pc ⁻¹ /g
RA-226	2.780	pc ⁻¹ /g	J		2.540	pc ⁻¹ /g	J	0.870	pc ⁻¹ /g
RA-228	2.360	pc ⁻¹ /g	-		1.960	pc ⁻¹ /g	-	0.530	pc ⁻¹ /g
RU-106	0.110	pc ⁻¹ /g	UJ		0.780	pc ⁻¹ /g	UJ	0.670	pc ⁻¹ /g
SR-90	0.240	pc ⁻¹ /g	UJ		0.488	pc ⁻¹ /g	UJ	0.400	pc ⁻¹ /g
TC-99	0.391	pc ⁻¹ /g	UJ		0.381	pc ⁻¹ /g	UJ	0.370	pc ⁻¹ /g
TH-228	2.240	pc ⁻¹ /g	-		2.650	pc ⁻¹ /g	-	0.410	pc ⁻¹ /g
TH-230	8.800	pc ⁻¹ /g	-		4.700	pc ⁻¹ /g	-	2.030	pc ⁻¹ /g
TH-232	1.840	pc ⁻¹ /g	-		2.600	pc ⁻¹ /g	-	0.290	pc ⁻¹ /g
TH-TOTAL	16.700	mg/kg	-		23.700	mg/kg	-	2.610	mg/kg
U-234	9.480	pc ⁻¹ /g	-		2.650	pc ⁻¹ /g	-	0.710	pc ⁻¹ /g
U-235/236	0.730	pc ⁻¹ /g	J		0.160	pc ⁻¹ /g	J	0.043	pc ⁻¹ /g
U-238	9.900	pc ⁻¹ /g	J		2.840	pc ⁻¹ /g	J	0.860	pc ⁻¹ /g
U-TOTAL	38.500	mg/kg	-		19.700	mg/kg	J	3.620	mg/kg

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TABLE E-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
SAMPLE NUMBER	1997			1997			1997		
	116177			116192			116243		
	0 - 1.5			10 - 11.5			28.5 - 30		
SAMPLING DATE	05/05/93			05/05/93			05/06/93		
RADIOLOGICAL PARAMETERS									
CS-137	0.550	pc ⁻¹ /g	J	0.120	pc ⁻¹ /g	UJ	0.080	pc ⁻¹ /g	UJ
GROSS ALPHA	38.700	pc ⁻¹ /g	J	42.100	pc ⁻¹ /g	J	18.300	pc ⁻¹ /g	J
GROSS BETA	54.400	pc ⁻¹ /g	J	30.800	pc ⁻¹ /g	J	32.900	pc ⁻¹ /g	J
NP-237	0.300	pc ⁻¹ /g	N	0.160	pc ⁻¹ /g	N	0.180	pc ⁻¹ /g	N
PU-238	0.060	pc ⁻¹ /g	J	0.270	pc ⁻¹ /g	J	0.040	pc ⁻¹ /g	J
PU-239/240	0.090	pc ⁻¹ /g	J	0.040	pc ⁻¹ /g	J	0.060	pc ⁻¹ /g	J
RA-226	1.300	pc ⁻¹ /g	-	2.850	pc ⁻¹ /g	-	1.260	pc ⁻¹ /g	-
RA-228	1.290	pc ⁻¹ /g	-	2.220	pc ⁻¹ /g	-	0.910	pc ⁻¹ /g	-
RU-106	0.760	pc ⁻¹ /g	UJ	1.010	pc ⁻¹ /g	UJ	0.830	pc ⁻¹ /g	UJ
SR-90	0.440	pc ⁻¹ /g	UJ	0.450	pc ⁻¹ /g	UJ	0.370	pc ⁻¹ /g	UJ
TC-99	0.330	pc ⁻¹ /g	UJ	0.340	pc ⁻¹ /g	UJ	0.330	pc ⁻¹ /g	UJ
TH-228	1.160	pc ⁻¹ /g	J	2.360	pc ⁻¹ /g	J	0.630	pc ⁻¹ /g	J
TH-230	1.890	pc ⁻¹ /g	J	3.050	pc ⁻¹ /g	J	1.000	pc ⁻¹ /g	J
TH-232	1.000	pc ⁻¹ /g	J	2.340	pc ⁻¹ /g	J	0.850	pc ⁻¹ /g	J
TH-TOTAL	9.200	mg/kg	J	21.300	mg/kg	J	7.760	mg/kg	J
U-234	23.400	pc ⁻¹ /g	J	3.910	pc ⁻¹ /g	J	0.720	pc ⁻¹ /g	J
U-235/236	1.280	pc ⁻¹ /g	J	0.210	pc ⁻¹ /g	J	0.040	pc ⁻¹ /g	J
U-238	23.700	pc ⁻¹ /g	J	4.190	pc ⁻¹ /g	J	0.980	pc ⁻¹ /g	J
U-TOTAL	69.800	mg/kg	J	10.900	mg/kg	J	5.620	mg/kg	J

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TABLE E-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1997			1997			1998		
SAMPLE NUMBER	116252	pc ⁱ /g	J	116257	pc ⁱ /g	J	112045	pc ⁱ /g	-
SAMPLING DATE	34 - 35.5			38 - 39			2 - 3.5		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.070	pc ⁱ /g	UJ	0.080	pc ⁱ /g	UJ	0.090	pc ⁱ /g	UJ
GROSS ALPHA	9.630	pc ⁱ /g	J	9.890	pc ⁱ /g	J	40.000	pc ⁱ /g	-
GROSS BETA	22.700	pc ⁱ /g	J	14.500	pc ⁱ /g	J	35.100	pc ⁱ /g	-
NP-237	0.260	pc ⁱ /g	N	0.180	pc ⁱ /g	N	0.113	pc ⁱ /g	N
PU-238	0.040	pc ⁱ /g	J	0.040	pc ⁱ /g	J	0.115	pc ⁱ /g	J
PU-239/240	0.050	pc ⁱ /g	J	0.040	pc ⁱ /g	J	0.069	pc ⁱ /g	J
RA-226	1.220	pc ⁱ /g	-	0.780	pc ⁱ /g	-	3.440	pc ⁱ /g	-
RA-228	0.990	pc ⁱ /g	-	0.340	pc ⁱ /g	J	2.510	pc ⁱ /g	-
RU-106	0.750	pc ⁱ /g	UJ	0.840	pc ⁱ /g	UJ	0.710	pc ⁱ /g	UJ
SR-90	0.510	pc ⁱ /g	UJ	0.290	pc ⁱ /g	UJ	0.340	pc ⁱ /g	UJ
TC-99	0.370	pc ⁱ /g	UJ	0.380	pc ⁱ /g	UJ	0.360	pc ⁱ /g	UJ
TH-228	0.740	pc ⁱ /g	-	0.400	pc ⁱ /g	J	2.820	pc ⁱ /g	R
TH-230	1.140	pc ⁱ /g	-	1.080	pc ⁱ /g	-	6.160	pc ⁱ /g	R
TH-232	0.870	pc ⁱ /g	-	0.360	pc ⁱ /g	J	2.670	pc ⁱ /g	R
TH-TOTAL	7.950	mg/kg	-	3.280	mg/kg	J	24.400	mg/kg	R
U-234	0.800	pc ⁱ /g	-	1.290	pc ⁱ /g	-	4.230	pc ⁱ /g	-
U-235/236	0.040	pc ⁱ /g	J	0.080	pc ⁱ /g	J	0.190	pc ⁱ /g	J
U-238	0.910	pc ⁱ /g	-	1.440	pc ⁱ /g	-	4.460	pc ⁱ /g	-
U-TOTAL	2.620	mg/kg	J	5.860	mg/kg	-	14.300	mg/kg	-

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000121

TABLE E-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
SAMPLE NUMBER	1998 112054 8 - 9.5 04/28/93			1998 112057 10 - 11.5 04/28/93			1998 112065 17 - 18.5 04/28/93		
RADIOLOGICAL PARAMETERS									
CS-137	0.088	pCi/g	J	0.105	pCi/g	J	0.085	pCi/g	UJ
GROSS ALPHA	19.110	pCi/g	-	38.340	pCi/g	-	7.810	pCi/g	-
GROSS BETA	35.780	pCi/g	-	33.670	pCi/g	-	19.400	pCi/g	-
NP-237	0.165	pCi/g	N	0.490	pCi/g	N	0.160	pCi/g	N
PU-238	0.039	pCi/g	UJ	0.133	pCi/g	J	0.066	pCi/g	J
PU-239/240	0.039	pCi/g	UJ	0.100	pCi/g	J	0.041	pCi/g	UJ
RA-226	1.460	pCi/g	-	2.070	pCi/g	-	0.790	pCi/g	-
RA-228	1.180	pCi/g	-	1.590	pCi/g	-	0.730	pCi/g	-
RU-106	0.740	pCi/g	UJ	0.820	pCi/g	UJ	0.740	pCi/g	UJ
SR-90	0.470	pCi/g	UJ	0.480	pCi/g	UJ	0.470	pCi/g	UJ
TC-99	0.360	pCi/g	UJ	0.360	pCi/g	UJ	0.340	pCi/g	UJ
TH-228	1.170	pCi/g	-	1.300	pCi/g	-	0.535	pCi/g	J
TH-230	2.800	pCi/g	-	4.170	pCi/g	-	0.874	pCi/g	J
TH-232	0.979	pCi/g	-	1.350	pCi/g	-	0.732	pCi/g	J
TH-TOTAL	8.920	mg/kg	-	12.300	mg/kg	-	6.670	mg/kg	J
U-234	4.140	pCi/g	-	8.600	pCi/g	-	0.770	pCi/g	-
U-235/236	0.210	pCi/g	J	0.400	pCi/g	J	0.039	pCi/g	J
U-238	4.780	pCi/g	-	9.220	pCi/g	-	0.850	pCi/g	-
U-TOTAL	14.900	mg/kg	-	31.700	mg/kg	-	4.390	mg/kg	-

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11006	11055	11054
SAMPLE NUMBER	113492	116331	116340
SAMPLING DATE	22.5-24 04/26/93	16-18 05/19/93	16-17 05/21/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
Inorganics			
Aluminum	9630.000	mg/kg C J	NA
Antimony	1.300	mg/kg C UJ	NA
Arsenic	6.700	mg/kg C -	NA
Barium	132.000	mg/kg C -	NA
Beryllium	0.530	mg/kg C U	NA
Cadmium	1.300	mg/kg C U	NA
Calcium	74100.000	mg/kg C J	NA
Chromium	34.800	mg/kg C J	NA
Cobalt	8.700	mg/kg C -	NA
Copper	249.000	mg/kg C J	NA
Cyanide	0.130	mg/kg C UJ	NA
Iron	19600.000	mg/kg C J	NA
Lead	96.600	mg/kg C J	NA
Magnesium	24300.000	mg/kg C J	NA
Manganese	576.000	mg/kg C -	NA
Mercury	0.440	mg/kg C -	NA
Molybdenum	8.700	mg/kg C -	NA
Nickel	82.300	mg/kg C J	NA
Potassium	2900.000	mg/kg C -	NA
Selenium	0.530	mg/kg C U	NA
Silicon	860.000	mg/kg C J	NA
Silver	8.100	mg/kg C -	NA
Sodium	486.000	mg/kg C -	NA
Thallium	0.530	mg/kg C U	NA
Vanadium	19.500	mg/kg C -	NA
Zinc	383.000	mg/kg C J	NA
Volatile Organics			
1,1,1-Trichloroethane	NA	8.000 ug/kg C J	10.000 ug/kg C U
1,1,2,2-Tetrachloroethane	NA	14.000 ug/kg C UJ	10.000 ug/kg C U
1,1,2-Trichloroethane	NA	14.000 ug/kg C UJ	10.000 ug/kg C U
1,1-Dichloroethane	NA	14.000 ug/kg C UJ	10.000 ug/kg C U
1,1-Dichloroethene	NA	14.000 ug/kg C UJ	10.000 ug/kg C U
1,2-Dichloroethane	NA	14.000 ug/kg C UJ	10.000 ug/kg C U
1,2-Dichloroethene	NA	14.000 ug/kg C UJ	10.000 ug/kg C U
1,2-Dichloropropane	NA	14.000 ug/kg C UJ	10.000 ug/kg C U
2-Butanone	NA	14.000 ug/kg C UJ	10.000 ug/kg C U
2-Hexanone	NA	14.000 ug/kg C UJ	10.000 ug/kg C U
4-Methyl-2-pentanone	NA	14.000 ug/kg C UJ	10.000 ug/kg C U
Acetone	NA	23.000 ug/kg C J	10.000 ug/kg C U
Benzene	NA	14.000 ug/kg C UJ	10.000 ug/kg C U

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11006	11055	11054
SAMPLE NUMBER	113492	116331	116340
SAMPLING DATE	22.5-24 04/26/93	16-18 05/19/93	16-17 05/21/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Volatile Organics</u>			
Bromodichloromethane	NA		14.000 ug/kg C UJ
Bromoform	NA		14.000 ug/kg C UJ
Bromomethane	NA		14.000 ug/kg C UJ
Carbon Tetrachloride	NA		14.000 ug/kg C UJ
Carbon disulfide	NA		14.000 ug/kg C UJ
Chlorobenzene	NA		14.000 ug/kg C UJ
Chloroethane	NA		14.000 ug/kg C UJ
Chloroform	NA		14.000 ug/kg C UJ
Chloromethane	NA		14.000 ug/kg C UJ
Dibromochloromethane	NA		14.000 ug/kg C UJ
Ethylbenzene	NA		14.000 ug/kg C UJ
Methylene chloride	NA		14.000 ug/kg C UJ
Styrene	NA		14.000 ug/kg C UJ
Tetrachloroethene	NA		1.000 ug/kg C J
Toluene	NA		3500.000 ug/kg C R
Trichloroethene	NA		14.000 ug/kg C UJ
Vinyl Acetate	NA		14.000 ug/kg C UJ
Vinyl chloride	NA		14.000 ug/kg C UJ
Xylenes, Total	NA		14.000 ug/kg C UJ
cis-1,3-Dichloropropene	NA		14.000 ug/kg C UJ
trans-1,3-Dichloropropene	NA		14.000 ug/kg C UJ
<u>Semivolatile Organics</u>			
1,2,4-Trichlorobenzene	430.000	ug/kg C UJ	460.000 ug/kg C U
1,2-Dichlorobenzene	430.000	ug/kg C UJ	460.000 ug/kg C U
1,3-Dichlorobenzene	430.000	ug/kg C UJ	460.000 ug/kg C U
1,4-Dichlorobenzene	430.000	ug/kg C UJ	460.000 ug/kg C U
2,4,5-Trichlorophenol	1100.000	ug/kg C UJ	1100.000 ug/kg C U
2,4,6-Trichlorophenol	430.000	ug/kg C UJ	460.000 ug/kg C U
2,4-Dichlorophenol	430.000	ug/kg C UJ	460.000 ug/kg C U
2,4-Dimethylphenol	430.000	ug/kg C UJ	460.000 ug/kg C U
2,4-Dinitrophenol	1100.000	ug/kg C UJ	1100.000 ug/kg C UJ
2,4-Dinitrotoluene	430.000	ug/kg C UJ	460.000 ug/kg C U
2,6-Dinitrotoluene	430.000	ug/kg C UJ	460.000 ug/kg C U
2-Benzyl-4-chlorophenol	430.000	ug/kg C UJ	NA
2-Chloronaphthalene	430.000	ug/kg C UJ	460.000 ug/kg C U
2-Chlorophenol	430.000	ug/kg C UJ	460.000 ug/kg C U
2-Methylnaphthalene	430.000	ug/kg C UJ	460.000 ug/kg C U
2-Methylphenol	430.000	ug/kg C UJ	460.000 ug/kg C U
2-Nitroaniline	1100.000	ug/kg C UJ	1100.000 ug/kg C U
2-Nitrophenol	430.000	ug/kg C UJ	460.000 ug/kg C U

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
3,3'-Dichlorobenzidine	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	UJ
3-Nitroaniline	1100.000	ug/kg	C	UJ	1100.000	ug/kg	C	U	840.000	ug/kg	C	R
4,6-Dinitro-2-methylphenol	1100.000	ug/kg	C	UJ	1100.000	ug/kg	C	U	840.000	ug/kg	C	U
4-Bromophenyl phenyl ether	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	U
4-Chloro-3-methylphenol	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	U
4-Chlorophenylphenyl ether	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	U
4-Methylphenol	10.000	ug/kg	C	J	460.000	ug/kg	C	U	350.000	ug/kg	C	U
4-Nitroaniline	1100.000	ug/kg	C	UJ	1100.000	ug/kg	C	U	840.000	ug/kg	C	UJ
4-Nitrophenol	1100.000	ug/kg	C	UJ	1100.000	ug/kg	C	U	840.000	ug/kg	C	U
Acenaphthene	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Acenaphthylene	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Anthracene	3.000	ug/kg	C	J	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Benzo(a)anthracene	8.000	ug/kg	C	J	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Benzo(a)pyrene	7.000	ug/kg	C	J	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Benzo(b)fluoranthene	5.000	ug/kg	C	J	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Benzo(g,h,i)perylene	4.000	ug/kg	C	J	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Benzo(k)fluoranthene	6.000	ug/kg	C	J	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Benzoic acid	2100.000	ug/kg	C	UJ	NA				NA			
Benzyl alcohol	430.000	ug/kg	C	UJ	NA				NA			
Butyl benzyl phthalate	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Carbazole	1.000	ug/kg	C	J	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Chrysene	8.000	ug/kg	C	J	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Di-n-butyl phthalate	430.000	ug/kg	C	UJ	59.000	ug/kg	C	U	350.000	ug/kg	C	U
Di-n-octyl phthalate	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Dibenzo(a,h)anthracene	2.000	ug/kg	C	J	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Dibenzofuran	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Diethyl phthalate	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Dimethyl phthalate	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Fluoranthene	16.000	ug/kg	C	J	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Fluorene	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Hexachlorobenzene	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Hexachlorobutadiene	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Hexachlorocyclopentadiene	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Hexachloroethane	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Indeno(1,2,3-cd)pyrene	4.000	ug/kg	C	J	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Isophorone	4.000	ug/kg	C	J	460.000	ug/kg	C	U	350.000	ug/kg	C	U
N-Nitroso-di-n-propylamine	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	U
N-Nitrosodimethylamine	430.000	ug/kg	C	UJ	NA				NA			
N-Nitrosodiphenylamine	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Naphthalene	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Nitrobenzene	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Pentachlorophenol	1100.000	ug/kg	C	UJ	1100.000	ug/kg	C	U	840.000	ug/kg	C	U

TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
Semivolatile Organics												
Phenanthrene	10.000	ug/kg	C	J	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Phenol	2.000	ug/kg	C	J	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Pyrene	14.000	ug/kg	C	J	460.000	ug/kg	C	U	350.000	ug/kg	C	U
Tributyl phosphate	2.000	ug/kg	C	J	NA				NA			
bis(2-Chloroethoxy)methane	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	U
bis(2-Chloroethyl)ether	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	U
bis(2-Chloroisopropyl) ether	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	U
bis(2-Ethylhexyl) phthalate	2.000	ug/kg	C	J	48.000	ug/kg	C	J	54.000	ug/kg	C	J
p-Chloroaniline	430.000	ug/kg	C	UJ	460.000	ug/kg	C	U	350.000	ug/kg	C	UJ
Pesticide Organics/PCBs												
4,4'-DDD	4.300	ug/kg	C	UJ	4.600	ug/kg	C	U	3.400	ug/kg	C	U
4,4'-DDE	4.300	ug/kg	C	UJ	4.600	ug/kg	C	U	3.400	ug/kg	C	U
4,4'-DDT	4.300	ug/kg	C	UJ	4.600	ug/kg	C	U	3.400	ug/kg	C	U
Aldrin	2.200	ug/kg	C	UJ	2.400	ug/kg	C	U	1.800	ug/kg	C	U
Aroclor-1016	43.000	ug/kg	C	UJ	46.000	ug/kg	C	U	34.000	ug/kg	C	U
Aroclor-1221	88.000	ug/kg	C	UJ	94.000	ug/kg	C	U	70.000	ug/kg	C	U
Aroclor-1232	43.000	ug/kg	C	UJ	46.000	ug/kg	C	U	34.000	ug/kg	C	U
Aroclor-1242	43.000	ug/kg	C	UJ	46.000	ug/kg	C	U	34.000	ug/kg	C	U
Aroclor-1248	43.000	ug/kg	C	UJ	46.000	ug/kg	C	U	34.000	ug/kg	C	U
Aroclor-1254	570.000	ug/kg	C	J	46.000	ug/kg	C	U	34.000	ug/kg	C	U
Aroclor-1260	43.000	ug/kg	C	UJ	46.000	ug/kg	C	U	34.000	ug/kg	C	U
Dieldrin	4.300	ug/kg	C	UJ	4.600	ug/kg	C	U	3.400	ug/kg	C	U
Endosulfan II	4.300	ug/kg	C	UJ	4.600	ug/kg	C	U	3.400	ug/kg	C	U
Endosulfan sulfate	4.300	ug/kg	C	UJ	4.600	ug/kg	C	U	3.400	ug/kg	C	U
Endosulfan-I	2.200	ug/kg	C	UJ	2.400	ug/kg	C	U	1.800	ug/kg	C	U
Endrin	4.300	ug/kg	C	UJ	4.600	ug/kg	C	U	3.400	ug/kg	C	U
Endrin aldehyde	4.300	ug/kg	C	UJ	4.600	ug/kg	C	U	3.400	ug/kg	C	U
Endrin ketone	4.300	ug/kg	C	UJ	4.600	ug/kg	C	U	3.400	ug/kg	C	U
Heptachlor	2.200	ug/kg	C	UJ	2.400	ug/kg	C	U	1.800	ug/kg	C	U
Heptachlor epoxide	2.200	ug/kg	C	UJ	2.400	ug/kg	C	U	1.800	ug/kg	C	U
Methoxychlor	22.000	ug/kg	C	UJ	24.000	ug/kg	C	U	18.000	ug/kg	C	U
Toxaphene	220.000	ug/kg	C	UJ	240.000	ug/kg	C	U	180.000	ug/kg	C	U
alpha-BHC	2.200	ug/kg	C	UJ	2.400	ug/kg	C	U	1.800	ug/kg	C	U
alpha-Chlordane	2.200	ug/kg	C	UJ	2.400	ug/kg	C	U	1.800	ug/kg	C	U
beta-BHC	2.200	ug/kg	C	UJ	2.400	ug/kg	C	U	1.800	ug/kg	C	U
delta-BHC	2.200	ug/kg	C	UJ	2.400	ug/kg	C	U	1.800	ug/kg	C	U
gamma-BHC (Lindane)	2.200	ug/kg	C	UJ	2.400	ug/kg	C	U	1.800	ug/kg	C	U
gamma-Chlordane	2.200	ug/kg	C	UJ	2.400	ug/kg	C	U	1.800	ug/kg	C	U

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11056	11057	11052
SAMPLE NUMBER	116335	116337	116427
SAMPLING DATE	17-18 05/20/93	17-18 05/20/93	19-21 05/25/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
Inorganics			
Aluminum	NA		13900.000 mg/kg C -
Antimony	NA		2.100 mg/kg C J
Arsenic	NA		35.500 mg/kg C -
Barium	NA		222.000 mg/kg C -
Beryllium	NA		1.600 mg/kg C -
Cadmium	NA		1.300 mg/kg C U
Calcium	NA		31400.000 mg/kg C -
Chromium	NA		22.000 mg/kg C -
Cobalt	NA		14.600 mg/kg C -
Copper	NA		92.300 mg/kg C -
Cyanide	NA		0.130 mg/kg C U
Iron	NA		20100.000 mg/kg C -
Lead	NA		193.000 mg/kg C -
Magnesium	NA		9120.000 mg/kg C -
Manganese	NA		432.000 mg/kg C -
Mercury	NA		0.460 mg/kg C -
Molybdenum	NA		7.400 mg/kg C -
Nickel	NA		54.400 mg/kg C -
Potassium	NA		2050.000 mg/kg C -
Selenium	NA		1.800 mg/kg C -
Silicon	NA		1090.000 mg/kg C -
Silver	NA		7.900 mg/kg C -
Sodium	NA		225.000 mg/kg C -
Thallium	NA		0.530 mg/kg C U
Vanadium	NA		41.300 mg/kg C -
Zinc	NA		324.000 mg/kg C -
Volatile Organics			
1,1,1-Trichloroethane	12.000 ug/kg C J		14.000 ug/kg C U
1,1,2,2-Tetrachloroethane	17.000 ug/kg C R		14.000 ug/kg C U
1,1,2-Trichloroethane	17.000 ug/kg C UJ		14.000 ug/kg C U
1,1-Dichloroethane	17.000 ug/kg C U		14.000 ug/kg C U
1,1-Dichloroethene	17.000 ug/kg C U		14.000 ug/kg C U
1,2-Dichloroethane	17.000 ug/kg C U		14.000 ug/kg C U
1,2-Dichloroethene	17.000 ug/kg C U		14.000 ug/kg C U
1,2-Dichloropropane	17.000 ug/kg C UJ		14.000 ug/kg C U
2-Butanone	17.000 ug/kg C U		14.000 ug/kg C U
2-Hexanone	17.000 ug/kg C UJ		14.000 ug/kg C U
4-Methyl-2-pentanone	17.000 ug/kg C UJ		14.000 ug/kg C U
Acetone	17.000 ug/kg C U		6.000 ug/kg C J
Benzene	17.000 ug/kg C UJ		14.000 ug/kg C U

TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11056	11057	11052			
SAMPLE NUMBER	116335	116337	116427			
SAMPLING DATE	17-18 05/20/93	17-18 05/20/93	19-21 05/25/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	17.000	ug/kg C UJ	10.000	ug/kg C U	14.000	ug/kg C U
Bromoform	17.000	ug/kg C UJ	10.000	ug/kg C U	14.000	ug/kg C U
Bromomethane	17.000	ug/kg C U	10.000	ug/kg C U	14.000	ug/kg C U
Carbon Tetrachloride	17.000	ug/kg C UJ	10.000	ug/kg C U	14.000	ug/kg C U
Carbon disulfide	17.000	ug/kg C U	10.000	ug/kg C U	14.000	ug/kg C U
Chlorobenzene	17.000	ug/kg C R	10.000	ug/kg C U	14.000	ug/kg C U
Chloroethane	17.000	ug/kg C U	10.000	ug/kg C UJ	14.000	ug/kg C U
Chloroform	17.000	ug/kg C U	10.000	ug/kg C U	14.000	ug/kg C U
Chloromethane	17.000	ug/kg C U	10.000	ug/kg C UJ	14.000	ug/kg C U
Dibromochloromethane	17.000	ug/kg C UJ	10.000	ug/kg C U	14.000	ug/kg C U
Ethylbenzene	17.000	ug/kg C R	10.000	ug/kg C U	14.000	ug/kg C U
Methylene chloride	30.000	ug/kg C U	10.000	ug/kg C U	14.000	ug/kg C U
Styrene	17.000	ug/kg C R	10.000	ug/kg C U	14.000	ug/kg C U
Tetrachloroethene	17.000	ug/kg C R	10.000	ug/kg C U	14.000	ug/kg C U
Toluene	23.000	ug/kg C J	1.000	ug/kg C J	14.000	ug/kg C U
Trichloroethene	17.000	ug/kg C UJ	10.000	ug/kg C U	14.000	ug/kg C U
Vinyl Acetate	17.000	ug/kg C UJ	10.000	ug/kg C U	14.000	ug/kg C U
Vinyl chloride	17.000	ug/kg C U	10.000	ug/kg C U	14.000	ug/kg C U
Xylenes, Total	17.000	ug/kg C R	10.000	ug/kg C U	14.000	ug/kg C U
cis-1,3-Dichloropropene	17.000	ug/kg C UJ	10.000	ug/kg C U	14.000	ug/kg C U
trans-1,3-Dichloropropene	17.000	ug/kg C UJ	10.000	ug/kg C U	14.000	ug/kg C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
1,2-Dichlorobenzene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
1,3-Dichlorobenzene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
1,4-Dichlorobenzene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
2,4,5-Trichlorophenol	1400.000	ug/kg C U	830.000	ug/kg C U	1100.000	ug/kg C U
2,4,6-Trichlorophenol	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
2,4-Dichlorophenol	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
2,4-Dimethylphenol	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
2,4-Dinitrophenol	1400.000	ug/kg C UJ	830.000	ug/kg C UJ	1100.000	ug/kg C U
2,4-Dinitrotoluene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
2,6-Dinitrotoluene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
2-Benzyl-4-chlorophenol	NA		NA		440.000	ug/kg C U
2-Chloronaphthalene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
2-Chlorophenol	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
2-Methylnaphthalene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
2-Methylphenol	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
2-Nitroaniline	1400.000	ug/kg C U	830.000	ug/kg C U	1100.000	ug/kg C U
2-Nitrophenol	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U

TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11056	11057	11052			
SAMPLE NUMBER	116335	116337	116427			
SAMPLING DATE	17-18 05/20/93	17-18 05/20/93	19-21 05/25/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Semivolatile Organics						
3,3'-Dichlorobenzidine	570.000	ug/kg C UJ	340.000	ug/kg C UJ	440.000	ug/kg C U
3-Nitroaniline	1400.000	ug/kg C R	830.000	ug/kg C R	1100.000	ug/kg C U
4,6-Dinitro-2-methylphenol	1400.000	ug/kg C U	830.000	ug/kg C U	1100.000	ug/kg C U
4-Bromophenyl phenyl ether	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
4-Chloro-3-methylphenol	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
4-Chlorophenylphenyl ether	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
4-Methylphenol	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
4-Nitroaniline	1400.000	ug/kg C UJ	830.000	ug/kg C UJ	1100.000	ug/kg C U
4-Nitrophenol	1400.000	ug/kg C U	830.000	ug/kg C U	1100.000	ug/kg C U
Acenaphthene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Acenaphthylene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Anthracene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Benzo(a)anthracene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Benzo(a)pyrene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Benzo(b)fluoranthene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Benzo(g,h,i)perylene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Benzo(k)fluoranthene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Benzoic acid	NA		NA		2100.000	ug/kg C UJ
Benzyl alcohol	NA		NA		440.000	ug/kg C R
Butyl benzyl phthalate	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Carbazole	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Chrysene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Di-n-butyl phthalate	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Di-n-octyl phthalate	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Dibenz(a,h)anthracene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Dibenzofuran	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Diethyl phthalate	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Dimethyl phthalate	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Fluoranthene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Fluorene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Hexachlorobenzene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Hexachlorobutadiene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Hexachlorocyclopentadiene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Hexachloroethane	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Indeno(1,2,3-cd)pyrene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Isophorone	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
N-Nitroso-di-n-propylamine	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
N-Nitrosodimethylamine	NA		NA		440.000	ug/kg C U
N-Nitrosodiphenylamine	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Naphthalene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Nitrobenzene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Pentachlorophenol	1400.000	ug/kg C U	830.000	ug/kg C U	1100.000	ug/kg C U

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11056	11057	11052			
SAMPLE NUMBER	116335	116337	116427			
SAMPLING DATE	17-18 05/20/93	17-18 05/20/93	19-21 05/25/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Phenanthrene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Pheno1	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Pyrene	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
Tributyl phosphate	NA		NA		440.000	ug/kg C U
bis(2-Chloroethoxy)methane	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
bis(2-Chloroethyl)ether	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
bis(2-Chloroisopropyl) ether	570.000	ug/kg C U	340.000	ug/kg C U	440.000	ug/kg C U
bis(2-Ethylhexyl) phthalate	570.000	ug/kg C U	340.000	ug/kg C U	52.000	ug/kg C J
p-Chloroaniline	570.000	ug/kg C UJ	340.000	ug/kg C UJ	440.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	5.700	ug/kg C U	3.500	ug/kg C U	4.500	ug/kg C U
4,4'-DDE	5.700	ug/kg C U	3.500	ug/kg C U	4.500	ug/kg C U
4,4'-DDT	5.700	ug/kg C U	3.500	ug/kg C U	4.500	ug/kg C U
Aldrin	3.000	ug/kg C U	1.800	ug/kg C U	2.300	ug/kg C U
Aroclor-1016	57.000	ug/kg C U	35.000	ug/kg C U	45.000	ug/kg C U
Aroclor-1221	120.000	ug/kg C U	71.000	ug/kg C U	92.000	ug/kg C U
Aroclor-1232	57.000	ug/kg C U	35.000	ug/kg C U	45.000	ug/kg C U
Aroclor-1242	57.000	ug/kg C U	35.000	ug/kg C U	45.000	ug/kg C U
Aroclor-1248	57.000	ug/kg C U	35.000	ug/kg C U	45.000	ug/kg C U
Aroclor-1254	57.000	ug/kg C U	35.000	ug/kg C U	45.000	ug/kg C U
Aroclor-1260	57.000	ug/kg C U	35.000	ug/kg C U	45.000	ug/kg C U
Dieldrin	5.700	ug/kg C U	3.500	ug/kg C U	4.500	ug/kg C U
Endosulfan II	5.700	ug/kg C U	3.500	ug/kg C U	4.500	ug/kg C U
Endosulfan sulfate	5.700	ug/kg C U	3.500	ug/kg C U	4.500	ug/kg C U
Endosulfan-I	3.000	ug/kg C U	1.800	ug/kg C U	2.300	ug/kg C U
Endrin	5.700	ug/kg C U	3.500	ug/kg C U	4.500	ug/kg C U
Endrin aldehyde	5.700	ug/kg C U	3.500	ug/kg C U	4.500	ug/kg C UJ
Endrin ketone	5.700	ug/kg C U	3.500	ug/kg C U	4.500	ug/kg C U
Heptachlor	3.000	ug/kg C U	1.800	ug/kg C U	2.300	ug/kg C U
Heptachlor epoxide	3.000	ug/kg C U	1.800	ug/kg C U	2.300	ug/kg C U
Methoxychlor	30.000	ug/kg C U	18.000	ug/kg C U	23.000	ug/kg C U
Toxaphene	300.000	ug/kg C U	180.000	ug/kg C U	230.000	ug/kg C U
alpha-BHC	3.000	ug/kg C U	1.800	ug/kg C U	2.300	ug/kg C U
alpha-Chlordane	3.000	ug/kg C U	1.800	ug/kg C U	2.300	ug/kg C U
beta-BHC	3.000	ug/kg C U	1.800	ug/kg C U	2.300	ug/kg C U
delta-BHC	3.000	ug/kg C U	1.800	ug/kg C U	2.300	ug/kg C UJ
gamma-BHC (Lindane)	3.000	ug/kg C U	1.800	ug/kg C U	2.300	ug/kg C U
gamma-Chlordane	3.000	ug/kg C U	1.800	ug/kg C U	2.300	ug/kg C U

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11051	11056	11057			
SAMPLE NUMBER	116441	116336	116338			
SAMPLING DATE	22-24 05/27/93	23-24 05/20/93	23-24 05/20/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Inorganics						
Aluminum	12200.000	mg/kg C -	NA			
Antimony	3.300	mg/kg C UJ	NA			
Arsenic	49.700	mg/kg C -	NA			
Barium	220.000	mg/kg C -	NA			
Beryllium	1.100	mg/kg C -	NA			
Cadmium	1.300	mg/kg C U	NA			
Calcium	64400.000	mg/kg C -	NA			
Chromium	32.100	mg/kg C -	NA			
Cobalt	18.200	mg/kg C -	NA			
Copper	258.000	mg/kg C -	NA			
Cyanide	0.160	mg/kg C -	NA			
Iron	22600.000	mg/kg C -	NA			
Lead	400.000	mg/kg C -	NA			
Magnesium	15200.000	mg/kg C -	NA			
Manganese	858.000	mg/kg C -	NA			
Mercury	0.510	mg/kg C J	NA			
Molybdenum	9.200	mg/kg C -	NA			
Nickel	65.100	mg/kg C -	NA			
Potassium	2060.000	mg/kg C -	NA			
Selenium	0.980	mg/kg C J	NA			
Silicon	1250.000	mg/kg C J	NA			
Silver	9.400	mg/kg C -	NA			
Sodium	663.000	mg/kg C -	NA			
Thallium	0.540	mg/kg C U	NA			
Vanadium	24.100	mg/kg C -	NA			
Zinc	372.000	mg/kg C -	NA			
Volatile Organics						
1,1,1-Trichloroethane	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
1,1,2,2-Tetrachloroethane	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
1,1,2-Trichloroethane	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
1,1-Dichloroethane	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
1,1-Dichloroethene	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
1,2-Dichloroethane	14.000	ug/kg C UJ	12.000	ug/kg C U	11.000	ug/kg C U
1,2-Dichloroethene	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
1,2-Dichloropropane	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
2-Butanone	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
2-Hexanone	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
4-Methyl-2-pentanone	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Acetone	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Benzene	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11051	11056	11057			
SAMPLE NUMBER	116441	116336	116338			
SAMPLING DATE	22-24 05/27/93	23-24 05/20/93	23-24 05/20/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Volatile Organics						
Bromodichloromethane	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Bromoform	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Bromomethane	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Carbon Tetrachloride	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Carbon disulfide	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Chlorobenzene	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Chloroethane	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Chloroform	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Chlorométhane	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Dibromochloromethane	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Ethylbenzene	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Methylene chloride	14.000	ug/kg C U	12.000	ug/kg C U	21.000	ug/kg C U
Styrene	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Tetrachloroethene	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Toluene	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Trichloroethene	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Vinyl Acetate	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Vinyl chloride	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Xylenes, Total	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
cis-1,3-Dichloropropene	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
trans-1,3-Dichloropropene	14.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Semivolatile Organics						
1,2,4-Trichlorobenzene	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
1,2-Dichlorobenzene	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
1,3-Dichlorobenzene	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
1,4-Dichlorobenzene	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
2,4,5-Trichlorophenol	1100.000	ug/kg C U	950.000	ug/kg C U	850.000	ug/kg C U
2,4,6-Trichlorophenol	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
2,4-Dichlorophenol	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
2,4-Dimethylphenol	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
2,4-Dinitrophenol	2200.000	ug/kg C UJ	950.000	ug/kg C UJ	850.000	ug/kg C UJ
2,4-Dinitrotoluene	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
2,6-Dinitrotoluene	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
2-Benzyl-4-chlorophenol	450.000	ug/kg C UJ	NA			
2-Chloronaphthalene	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
2-Chlorophenol	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
2-Methylnaphthalene	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
2-Methylphenol	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
2-Nitroaniline	1100.000	ug/kg C U	950.000	ug/kg C U	850.000	ug/kg C U
2-Nitrophenol	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11051	11056	11057			
SAMPLE NUMBER	116441	116336	116338			
SAMPLING DATE	22-24 05/27/93	23-24 05/20/93	23-24 05/20/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
3,3'-Dichlorobenzidine	450.000	ug/kg C U	390.000	ug/kg C UJ	350.000	ug/kg C UJ
3-Nitroaniline	1100.000	ug/kg C U	950.000	ug/kg C R	850.000	ug/kg C U
4,6-Dinitro-2-methylphenol	1100.000	ug/kg C U	950.000	ug/kg C U	850.000	ug/kg C U
4-Bromophenyl phenyl ether	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
4-Chloro-3-methylphenol	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
4-Chlorophenylphenyl ether	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
4-Methylphenol	54.000	ug/kg C J	390.000	ug/kg C U	350.000	ug/kg C U
4-Nitroaniline	1100.000	ug/kg C U	950.000	ug/kg C UJ	850.000	ug/kg C UJ
4-Nitrophenol	1100.000	ug/kg C U	950.000	ug/kg C U	850.000	ug/kg C U
Acenaphthene	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
Acenaphthylene	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
Anthracene	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
Benzo(a)anthracene	100.000	ug/kg C J	390.000	ug/kg C U	350.000	ug/kg C U
Benzo(a)pyrene	88.000	ug/kg C J	390.000	ug/kg C U	350.000	ug/kg C U
Benzo(b)fluoranthene	81.000	ug/kg C J	390.000	ug/kg C U	350.000	ug/kg C U
Benzo(g,h,i)perylene	57.000	ug/kg C J	390.000	ug/kg C U	350.000	ug/kg C U
Benzo(k)fluoranthene	84.000	ug/kg C J	390.000	ug/kg C U	350.000	ug/kg C U
Benzoic acid	2200.000	ug/kg C U	NA		NA	
Benzyl alcohol	450.000	ug/kg C R	NA		NA	
Butyl benzyl phthalate	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
Carbazole	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
Chrysene	110.000	ug/kg C J	390.000	ug/kg C U	350.000	ug/kg C U
Di-n-butyl phthalate	55.000	ug/kg C J	43.000	ug/kg C J	350.000	ug/kg C U
Di-n-octyl phthalate	450.000	ug/kg C UJ	390.000	ug/kg C U	350.000	ug/kg C U
Dibeno(a,h)anthracene	450.000	ug/kg C UJ	390.000	ug/kg C U	350.000	ug/kg C U
Dibenzofuran	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
Diethyl phthalate	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
Dimethyl phthalate	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
Fluoranthene	260.000	ug/kg C J	390.000	ug/kg C U	350.000	ug/kg C U
Fluorene	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
Hexachlorobenzene	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
Hexachlorobutadiene	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
Hexachlorocyclopentadiene	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
Hexachloroethane	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
Indeno(1,2,3-cd)pyrene	46.000	ug/kg C J	390.000	ug/kg C U	350.000	ug/kg C U
Isophorone	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
N-Nitroso-di-n-propylamine	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
N-Nitrosodimethylamine	450.000	ug/kg C U	NA		NA	
N-Nitrosodiphenylamine	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
Naphthalene	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
Nitrobenzene	450.000	ug/kg C U	390.000	ug/kg C U	350.000	ug/kg C U
Pentachlorophenol	1100.000	ug/kg C U	950.000	ug/kg C U	850.000	ug/kg C U

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
Semivolatile Organics												
Phenanthere	210.000	ug/kg	C	J	390.000	ug/kg	C	U	350.000	ug/kg	C	U
Phenol	450.000	ug/kg	C	U	390.000	ug/kg	C	U	350.000	ug/kg	C	U
Pyrene	220.000	ug/kg	C	J	390.000	ug/kg	C	U	350.000	ug/kg	C	U
Tributyl phosphate	200.000	ug/kg	C	J	NA				NA			
bis(2-Chloroethoxy)methane	450.000	ug/kg	C	U	390.000	ug/kg	C	U	350.000	ug/kg	C	U
bis(2-Chloroethyl)ether	450.000	ug/kg	C	U	390.000	ug/kg	C	U	350.000	ug/kg	C	U
bis(2-Chloroisopropyl) ether	450.000	ug/kg	C	U	390.000	ug/kg	C	U	350.000	ug/kg	C	U
bis(2-Ethylhexyl) phthalate	160.000	ug/kg	C	J	57.000	ug/kg	C	J	350.000	ug/kg	C	U
p-Chloroaniline	450.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	350.000	ug/kg	C	UJ
Pesticide Organics/PCBs												
4,4'-DDD	4.500	ug/kg	C	UJ	3.900	ug/kg	C	U	3.500	ug/kg	C	U
4,4'-DDE	4.500	ug/kg	C	UJ	3.900	ug/kg	C	U	3.500	ug/kg	C	U
4,4'-DDT	4.500	ug/kg	C	UJ	3.900	ug/kg	C	U	3.500	ug/kg	C	U
Aldrin	2.300	ug/kg	C	UJ	2.000	ug/kg	C	U	1.800	ug/kg	C	U
Aroclor-1016	45.000	ug/kg	C	UJ	39.000	ug/kg	C	U	35.000	ug/kg	C	U
Aroclor-1221	91.000	ug/kg	C	UJ	80.000	ug/kg	C	U	71.000	ug/kg	C	U
Aroclor-1232	45.000	ug/kg	C	UJ	39.000	ug/kg	C	U	35.000	ug/kg	C	U
Aroclor-1242	45.000	ug/kg	C	UJ	39.000	ug/kg	C	U	35.000	ug/kg	C	U
Aroclor-1248	45.000	ug/kg	C	UJ	39.000	ug/kg	C	U	35.000	ug/kg	C	U
Aroclor-1254	180.000	ug/kg	C	J	39.000	ug/kg	C	U	35.000	ug/kg	C	U
Aroclor-1260	45.000	ug/kg	C	UJ	39.000	ug/kg	C	U	35.000	ug/kg	C	U
Dieldrin	4.500	ug/kg	C	UJ	3.900	ug/kg	C	U	3.500	ug/kg	C	U
Endosulfan II	4.500	ug/kg	C	UJ	3.900	ug/kg	C	U	3.500	ug/kg	C	U
Endosulfan sulfate	4.500	ug/kg	C	UJ	3.900	ug/kg	C	U	3.500	ug/kg	C	U
Endosulfan-I	2.300	ug/kg	C	UJ	2.000	ug/kg	C	U	1.800	ug/kg	C	U
Endrin	4.500	ug/kg	C	UJ	3.900	ug/kg	C	U	3.500	ug/kg	C	U
Endrin aldehyde	4.500	ug/kg	C	UJ	3.900	ug/kg	C	U	3.500	ug/kg	C	U
Endrin ketone	4.500	ug/kg	C	UJ	3.900	ug/kg	C	U	3.500	ug/kg	C	U
Heptachlor	2.300	ug/kg	C	UJ	2.000	ug/kg	C	U	1.800	ug/kg	C	U
Heptachlor epoxide	2.300	ug/kg	C	UJ	2.000	ug/kg	C	U	1.800	ug/kg	C	U
Methoxychlor	23.000	ug/kg	C	UJ	20.000	ug/kg	C	U	18.000	ug/kg	C	U
Toxaphene	230.000	ug/kg	C	UJ	200.000	ug/kg	C	U	180.000	ug/kg	C	U
alpha-BHC	2.300	ug/kg	C	UJ	2.000	ug/kg	C	U	1.800	ug/kg	C	U
alpha-Chlordane	2.300	ug/kg	C	UJ	2.000	ug/kg	C	U	1.800	ug/kg	C	U
beta-BHC	2.300	ug/kg	C	UJ	2.000	ug/kg	C	U	1.800	ug/kg	C	U
delta-BHC	2.300	ug/kg	C	UJ	2.000	ug/kg	C	U	1.800	ug/kg	C	U
gamma-BHC (Lindane)	2.300	ug/kg	C	UJ	2.000	ug/kg	C	U	1.800	ug/kg	C	U
gamma-Chlordane	2.300	ug/kg	C	UJ	2.000	ug/kg	C	U	1.800	ug/kg	C	U

TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11054	SAMPLE NUMBER	116341	BORING NUMBER	11055	SAMPLE NUMBER	116332	BORING NUMBER	1994
SAMPLING DATE	23-24 05/21/93	RESULTS	UNITS L VQ	SAMPLING DATE	23.5-25 05/19/93	RESULTS	UNITS L VQ	SAMPLING DATE	2-3.5 05/12/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	
Inorganics									
Aluminum	NA		NA	NA		NA	9010.000	mg/kg C -	
Antimony	NA		NA	NA		NA	1.300	mg/kg C UJ	
Arsenic	NA		NA	NA		NA	12.100	mg/kg C -	
Barium	NA		NA	NA		NA	228.000	mg/kg C -	
Beryllium	NA		NA	NA		NA	1.400	mg/kg C -	
Cadmium	NA		NA	NA		NA	1.300	mg/kg C U	
Calcium	NA		NA	NA		NA	5840.000	mg/kg C -	
Chromium	NA		NA	NA		NA	11.200	mg/kg C -	
Cobalt	NA		NA	NA		NA	5.600	mg/kg C -	
Copper	NA		NA	NA		NA	31.500	mg/kg C -	
Cyanide	NA		NA	NA		NA	0.840	mg/kg C -	
Iron	NA		NA	NA		NA	3430.000	mg/kg C -	
Lead	NA		NA	NA		NA	14.400	mg/kg C -	
Magnesium	NA		NA	NA		NA	715.000	mg/kg C -	
Manganese	NA		NA	NA		NA	69.800	mg/kg C -	
Mercury	NA		NA	NA		NA	0.170	mg/kg C -	
Molybdenum	NA		NA	NA		NA	6.900	mg/kg C -	
Nickel	NA		NA	NA		NA	14.800	mg/kg C -	
Potassium	NA		NA	NA		NA	1230.000	mg/kg C -	
Selenium	NA		NA	NA		NA	11.100	mg/kg C -	
Silicon	NA		NA	NA		NA	496.000	mg/kg C -	
Silver	NA		NA	NA		NA	2.700	mg/kg C U	
Sodium	NA		NA	NA		NA	174.000	mg/kg C -	
Thallium	NA		NA	NA		NA	0.530	mg/kg C U	
Vanadium	NA		NA	NA		NA	36.700	mg/kg C -	
Zinc	NA		NA	NA		NA	20.900	mg/kg C -	
Volatile Organics									
1,1,1-Trichloroethane	11.000	ug/kg C U	11.000	ug/kg C U	10.000	ug/kg C U	10.000	ug/kg C U	
1,1,2,2-Tetrachloroethane	11.000	ug/kg C U	10.000	ug/kg C U	10.000	ug/kg C U	14.000	ug/kg C UJ	
1,1,2-Trichloroethane	11.000	ug/kg C U	10.000	ug/kg C U	10.000	ug/kg C U	14.000	ug/kg C UJ	
1,1-Dichloroethane	11.000	ug/kg C U	10.000	ug/kg C U	10.000	ug/kg C U	14.000	ug/kg C U	
1,1-Dichloroethene	11.000	ug/kg C U	10.000	ug/kg C U	10.000	ug/kg C U	14.000	ug/kg C U	
1,2-Dichloroethane	11.000	ug/kg C U	10.000	ug/kg C U	10.000	ug/kg C U	14.000	ug/kg C U	
1,2-Dichloroethene	11.000	ug/kg C U	10.000	ug/kg C U	10.000	ug/kg C U	14.000	ug/kg C U	
1,2-Dichloropropane	11.000	ug/kg C U	10.000	ug/kg C U	10.000	ug/kg C U	14.000	ug/kg C UJ	
2-Butanone	11.000	ug/kg C U	10.000	ug/kg C U	10.000	ug/kg C U	14.000	ug/kg C U	
2-Hexanone	11.000	ug/kg C U	10.000	ug/kg C U	10.000	ug/kg C U	14.000	ug/kg C UJ	
4-Methyl-2-pentanone	11.000	ug/kg C U	10.000	ug/kg C U	11.000	ug/kg C -	14.000	ug/kg C UJ	
Acetone	11.000	ug/kg C U	10.000	ug/kg C U	11.000	ug/kg C -	12.000	ug/kg C J	
Benzene	11.000	ug/kg C U	10.000	ug/kg C U	10.000	ug/kg C U	14.000	ug/kg C UJ	

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
Volatile Organics												
Bromodichloromethane	11.000	ug/kg	C	U	10.000	ug/kg	C	U	14.000	ug/kg	C	UJ
Bromoform	11.000	ug/kg	C	U	10.000	ug/kg	C	U	14.000	ug/kg	C	UJ
Bromomethane	11.000	ug/kg	C	U	10.000	ug/kg	C	UJ	14.000	ug/kg	C	U
Carbon Tetrachloride	11.000	ug/kg	C	U	10.000	ug/kg	C	U	14.000	ug/kg	C	UJ
Carbon disulfide	11.000	ug/kg	C	U	10.000	ug/kg	C	U	14.000	ug/kg	C	U
Chlorobenzene	11.000	ug/kg	C	U	10.000	ug/kg	C	U	14.000	ug/kg	C	UJ
Chloroethane	11.000	ug/kg	C	U	10.000	ug/kg	C	U	14.000	ug/kg	C	U
Chloroform	11.000	ug/kg	C	U	10.000	ug/kg	C	U	14.000	ug/kg	C	U
Chloromethane	11.000	ug/kg	C	U	10.000	ug/kg	C	U	14.000	ug/kg	C	U
Dibromochloromethane	11.000	ug/kg	C	U	10.000	ug/kg	C	U	14.000	ug/kg	C	UJ
Ethylbenzene	11.000	ug/kg	C	U	10.000	ug/kg	C	U	14.000	ug/kg	C	UJ
Methylene chloride	11.000	ug/kg	C	U	17.000	ug/kg	C	U	54.000	ug/kg	C	J
Styrene	11.000	ug/kg	C	U	10.000	ug/kg	C	U	14.000	ug/kg	C	UJ
Tetrachloroethene	11.000	ug/kg	C	U	10.000	ug/kg	C	U	14.000	ug/kg	C	UJ
Toluene	1.000	ug/kg	C	J	37.000	ug/kg	C	-	4.000	ug/kg	C	J
Trichloroethene	11.000	ug/kg	C	U	10.000	ug/kg	C	U	14.000	ug/kg	C	UJ
Vinyl Acetate	11.000	ug/kg	C	U	10.000	ug/kg	C	U	14.000	ug/kg	C	UJ
Vinyl chloride	11.000	ug/kg	C	U	10.000	ug/kg	C	U	14.000	ug/kg	C	U
Xylenes, Total	11.000	ug/kg	C	U	10.000	ug/kg	C	U	14.000	ug/kg	C	UJ
cis-1,3-Dichloropropene	11.000	ug/kg	C	U	10.000	ug/kg	C	U	14.000	ug/kg	C	UJ
trans-1,3-Dichloropropene	11.000	ug/kg	C	U	10.000	ug/kg	C	U	14.000	ug/kg	C	UJ
Semivolatile Organics												
1,2,4-Trichlorobenzene	370.000	ug/kg	C	U	340.000	ug/kg	C	U	460.000	ug/kg	C	U
1,2-Dichlorobenzene	370.000	ug/kg	C	U	340.000	ug/kg	C	U	460.000	ug/kg	C	U
1,3-Dichlorobenzene	370.000	ug/kg	C	U	340.000	ug/kg	C	U	460.000	ug/kg	C	U
1,4-Dichlorobenzene	370.000	ug/kg	C	U	340.000	ug/kg	C	U	460.000	ug/kg	C	U
2,4,5-Trichlorophenol	900.000	ug/kg	C	U	830.000	ug/kg	C	U	1100.000	ug/kg	C	U
2,4,6-Trichlorophenol	370.000	ug/kg	C	U	340.000	ug/kg	C	U	460.000	ug/kg	C	U
2,4-Dichlorophenol	370.000	ug/kg	C	U	340.000	ug/kg	C	U	460.000	ug/kg	C	U
2,4-Dimethylphenol	370.000	ug/kg	C	U	340.000	ug/kg	C	U	460.000	ug/kg	C	U
2,4-Dinitrophenol	900.000	ug/kg	C	UJ	830.000	ug/kg	C	UJ	1100.000	ug/kg	C	UJ
2,4-Dinitrotoluene	370.000	ug/kg	C	U	340.000	ug/kg	C	U	460.000	ug/kg	C	U
2,6-Dinitrotoluene	370.000	ug/kg	C	U	340.000	ug/kg	C	U	460.000	ug/kg	C	U
2-Chloronaphthalene	370.000	ug/kg	C	U	340.000	ug/kg	C	U	460.000	ug/kg	C	U
2-Chlorophenol	370.000	ug/kg	C	U	340.000	ug/kg	C	U	460.000	ug/kg	C	U
2-Methylnaphthalene	370.000	ug/kg	C	U	340.000	ug/kg	C	U	460.000	ug/kg	C	U
2-Methylphenol	370.000	ug/kg	C	U	340.000	ug/kg	C	U	460.000	ug/kg	C	U
2-Nitroaniline	900.000	ug/kg	C	U	830.000	ug/kg	C	U	1100.000	ug/kg	C	U
2-Nitrophenol	370.000	ug/kg	C	U	340.000	ug/kg	C	U	460.000	ug/kg	C	U
3,3'-Dichlorobenzidine	370.000	ug/kg	C	UJ	340.000	ug/kg	C	U	460.000	ug/kg	C	U

TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11054	11055	1994			
SAMPLE NUMBER	116341	116332	116264			
SAMPLING DATE	23-24 05/21/93	23.5-25 05/19/93	2-3.5 05/12/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
3-Nitroaniline	900.000	ug/kg C R	830.000	ug/kg C U	1100.000	ug/kg C U
4,6-Dinitro-2-methylphenol	900.000	ug/kg C U	830.000	ug/kg C U	1100.000	ug/kg C U
4-Bromophenyl phenyl ether	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
4-Chloro-3-methylphenol	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
4-Chlorophenylphenyl ether	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
4-Methylphenol	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
4-Nitroaniline	900.000	ug/kg C UJ	830.000	ug/kg C U	1100.000	ug/kg C U
4-Nitrophenol	900.000	ug/kg C U	830.000	ug/kg C U	1100.000	ug/kg C U
Acenaphthene	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
Acenaphthylene	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
Anthracene	370.000	ug/kg C U	340.000	ug/kg C U	49.000	ug/kg C J
Benzo(a)anthracene	370.000	ug/kg C U	340.000	ug/kg C U	130.000	ug/kg C J
Benzo(a)pyrene	370.000	ug/kg C U	340.000	ug/kg C U	98.000	ug/kg C J
Benzo(b)fluoranthene	370.000	ug/kg C U	340.000	ug/kg C U	140.000	ug/kg C J
Benzo(g,h,i)perylene	370.000	ug/kg C U	340.000	ug/kg C U	59.000	ug/kg C J
Benzo(k)fluoranthene	370.000	ug/kg C U	340.000	ug/kg C U	190.000	ug/kg C J
Butyl benzyl phthalate	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
Carbazole	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
Chrysene	370.000	ug/kg C U	340.000	ug/kg C U	150.000	ug/kg C J
Di-n-butyl phthalate	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
Di-n-octyl phthalate	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
Dibenzo(a,h)anthracene	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
Dibenzofuran	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
Diethyl phthalate	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
Dimethyl phthalate	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
Fluoranthene	370.000	ug/kg C U	340.000	ug/kg C U	340.000	ug/kg C J
Fluorene	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
Hexachlorobenzene	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
Hexachlorobutadiene	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
Hexachlorocyclopentadiene	370.000	ug/kg C U	340.000	ug/kg C UJ	460.000	ug/kg C UJ
Hexachloroethane	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
Indeno(1,2,3-cd)pyrene	370.000	ug/kg C U	340.000	ug/kg C U	63.000	ug/kg C J
Isophorone	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
N-Nitroso-di-n-propylamine	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
N-Nitrosodiphenylamine	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
Naphthalene	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
Nitrobenzene	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
Pentachlorophenol	900.000	ug/kg C U	830.000	ug/kg C U	1100.000	ug/kg C U
Phenanthrene	370.000	ug/kg C U	340.000	ug/kg C U	280.000	ug/kg C J
Phenol	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U
Pyrene	370.000	ug/kg C U	340.000	ug/kg C U	260.000	ug/kg C J
bis(2-Chloroethoxy)methane	370.000	ug/kg C U	340.000	ug/kg C U	460.000	ug/kg C U

TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
Bis(2-Chloroethyl)ether	370.000	ug/kg	C	U	340.000	ug/kg	C	U	460.000	ug/kg	C	U
bis(2-Chloroisopropyl) ether	370.000	ug/kg	C	U	340.000	ug/kg	C	U	460.000	ug/kg	C	U
bis(2-Ethylhexyl) phthalate	46.000	ug/kg	C	J	36.000	ug/kg	C	J	500.000	ug/kg	C	-
p-Chloroaniline	370.000	ug/kg	C	UJ	340.000	ug/kg	C	U	460.000	ug/kg	C	U
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	3.600	ug/kg	C	U	3.500	ug/kg	C	U	4.500	ug/kg	C	UJ
4,4'-DDE	3.600	ug/kg	C	U	3.500	ug/kg	C	U	4.500	ug/kg	C	UJ
4,4'-DDT	3.600	ug/kg	C	U	3.500	ug/kg	C	U	4.500	ug/kg	C	UJ
Aldrin	1.900	ug/kg	C	U	1.800	ug/kg	C	U	2.300	ug/kg	C	UJ
Aroclor-1016	36.000	ug/kg	C	U	35.000	ug/kg	C	U	45.000	ug/kg	C	U
Aroclor-1221	74.000	ug/kg	C	U	71.000	ug/kg	C	U	91.000	ug/kg	C	U
Aroclor-1232	36.000	ug/kg	C	U	35.000	ug/kg	C	U	45.000	ug/kg	C	U
Aroclor-1242	36.000	ug/kg	C	U	35.000	ug/kg	C	U	45.000	ug/kg	C	U
Aroclor-1248	36.000	ug/kg	C	U	35.000	ug/kg	C	U	45.000	ug/kg	C	U
Aroclor-1254	36.000	ug/kg	C	U	35.000	ug/kg	C	U	45.000	ug/kg	C	U
Aroclor-1260	36.000	ug/kg	C	U	35.000	ug/kg	C	U	45.000	ug/kg	C	U
Dieldrin	3.600	ug/kg	C	U	3.500	ug/kg	C	U	4.500	ug/kg	C	UJ
Endosulfan II	3.600	ug/kg	C	U	3.500	ug/kg	C	U	4.500	ug/kg	C	UJ
Endosulfan sulfate	3.600	ug/kg	C	U	3.500	ug/kg	C	U	4.500	ug/kg	C	UJ
Endosulfan-I	1.900	ug/kg	C	U	1.800	ug/kg	C	U	2.300	ug/kg	C	UJ
Endrin	3.600	ug/kg	C	U	3.500	ug/kg	C	U	4.500	ug/kg	C	UJ
Endrin aldehyde	3.600	ug/kg	C	U	3.500	ug/kg	C	U	4.500	ug/kg	C	UJ
Endrin ketone	3.600	ug/kg	C	U	3.500	ug/kg	C	U	4.500	ug/kg	C	UJ
Heptachlor	1.900	ug/kg	C	U	1.800	ug/kg	C	U	2.300	ug/kg	C	UJ
Heptachlor epoxide	1.900	ug/kg	C	U	1.800	ug/kg	C	U	2.300	ug/kg	C	UJ
Methoxychlor	19.000	ug/kg	C	U	18.000	ug/kg	C	U	23.000	ug/kg	C	UJ
Toxaphene	190.000	ug/kg	C	U	180.000	ug/kg	C	U	230.000	ug/kg	C	U
alpha-BHC	1.900	ug/kg	C	U	1.800	ug/kg	C	U	2.300	ug/kg	C	UJ
alpha-Chlordane	1.900	ug/kg	C	U	1.800	ug/kg	C	U	2.300	ug/kg	C	UJ
beta-BHC	1.900	ug/kg	C	U	1.800	ug/kg	C	U	2.300	ug/kg	C	UJ
delta-BHC	1.900	ug/kg	C	U	1.800	ug/kg	C	U	2.300	ug/kg	C	UJ
gamma-BHC (Lindane)	1.900	ug/kg	C	U	1.800	ug/kg	C	U	2.300	ug/kg	C	UJ
gamma-Chlordane	1.900	ug/kg	C	U	1.800	ug/kg	C	U	2.300	ug/kg	C	UJ

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1994	1994	1994	
SAMPLE NUMBER	116283	116301	116312	
SAMPLING DATE	14-15.5 05/12/93	26-27.5 05/13/93	36-37.5 05/13/93	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	
Inorganics				
Aluminum	7970.000	mg/kg C -	11100.000	mg/kg C -
Antimony	5.500	mg/kg C J	1.200	mg/kg C UJ
Arsenic	25.100	mg/kg C -	6.800	mg/kg C -
Barium	612.000	mg/kg C -	77.500	mg/kg C -
Beryllium	1.800	mg/kg C -	0.480	mg/kg C U
Cadmium	1.500	mg/kg C U	1.200	mg/kg C U
Calcium	8150.000	mg/kg C -	10200.000	mg/kg C -
Chromium	10.400	mg/kg C -	12.400	mg/kg C -
Cobalt	7.300	mg/kg C -	7.500	mg/kg C -
Copper	35.700	mg/kg C -	13.400	mg/kg C -
Cyanide	0.830	mg/kg C -	0.130	mg/kg C -
Iron	4460.000	mg/kg C -	16100.000	mg/kg C -
Lead	14.400	mg/kg C -	11.600	mg/kg C -
Magnesium	889.000	mg/kg C -	4810.000	mg/kg C -
Manganese	290.000	mg/kg C -	597.000	mg/kg C -
Mercury	0.180	mg/kg C -	0.110	mg/kg C U
Molybdenum	2.900	mg/kg C U	5.000	mg/kg C -
Nickel	16.900	mg/kg C -	13.800	mg/kg C -
Potassium	1030.000	mg/kg C -	1540.000	mg/kg C -
Selenium	5.100	mg/kg C -	0.430	mg/kg C U
Silicon	666.000	mg/kg C -	1040.000	mg/kg C -
Silver	2.900	mg/kg C U	4.700	mg/kg C -
Sodium	334.000	mg/kg C -	82.200	mg/kg C -
Thallium	0.590	mg/kg C U	0.430	mg/kg C U
Vanadium	32.100	mg/kg C -	25.300	mg/kg C -
Zinc	17.700	mg/kg C -	50.200	mg/kg C -
Volatile Organics				
1,1,1-Trichloroethane	35.000	ug/kg C J	5.000	ug/kg C J
1,1,2,2-Tetrachloroethane	15.000	ug/kg C UJ	12.000	ug/kg C UJ
1,1,2-Trichloroethane	15.000	ug/kg C UJ	12.000	ug/kg C U
1,1-Dichloroethane	15.000	ug/kg C UJ	12.000	ug/kg C UJ
1,1-Dichloroethene	15.000	ug/kg C UJ	12.000	ug/kg C U
1,2-Dichloroethane	15.000	ug/kg C UJ	12.000	ug/kg C UJ
1,2-Dichloroethene	15.000	ug/kg C UJ	12.000	ug/kg C U
1,2-Dichloropropane	15.000	ug/kg C UJ	12.000	ug/kg C UJ
2-Butanone	15.000	ug/kg C UJ	12.000	ug/kg C U
2-Hexanone	15.000	ug/kg C UJ	12.000	ug/kg C UJ
4-Methyl-2-pentanone	3.000	ug/kg C J	12.000	ug/kg C UJ
Acetone	29.000	ug/kg C J	3.000	ug/kg C J
Benzene	15.000	ug/kg C UJ	12.000	ug/kg C U

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1994	1994	1994			
SAMPLE NUMBER	116283	116301	116312			
SAMPLING DATE	14-15.5 05/12/93	26-27.5 05/13/93	36-37.5 05/13/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	15.000	ug/kg C UJ	12.000	ug/kg C U	11.000	ug/kg D U
Bromoform	15.000	ug/kg C UJ	12.000	ug/kg C U	11.000	ug/kg D U
Bromomethane	15.000	ug/kg C UJ	12.000	ug/kg C U	11.000	ug/kg D U
Carbon Tetrachloride	15.000	ug/kg C UJ	12.000	ug/kg C U	11.000	ug/kg D U
Carbon disulfide	15.000	ug/kg C UJ	12.000	ug/kg C U	11.000	ug/kg D U
Chlorobenzene	15.000	ug/kg C UJ	12.000	ug/kg C UJ	11.000	ug/kg D U
Chloroethane	15.000	ug/kg C UJ	12.000	ug/kg C U	11.000	ug/kg D U
Chloroform	15.000	ug/kg C UJ	12.000	ug/kg C U	11.000	ug/kg D U
Chloromethane	52.000	ug/kg C J	12.000	ug/kg C U	11.000	ug/kg D U
Dibromochloromethane	15.000	ug/kg C UJ	12.000	ug/kg C U	11.000	ug/kg D U
Ethylbenzene	15.000	ug/kg C UJ	12.000	ug/kg C UJ	11.000	ug/kg D U
Methylene chloride	110.000	ug/kg C J	66.000	ug/kg C -	53.000	ug/kg D -
Styrene	15.000	ug/kg C UJ	12.000	ug/kg C UJ	11.000	ug/kg D U
Tetrachloroethene	15.000	ug/kg C UJ	12.000	ug/kg C UJ	11.000	ug/kg D U
Toluene	22.000	ug/kg C J	97.000	ug/kg C J	4.000	ug/kg D J
Trichloroethene	15.000	ug/kg C UJ	12.000	ug/kg C U	11.000	ug/kg D U
Vinyl Acetate	15.000	ug/kg C UJ	12.000	ug/kg C U	11.000	ug/kg D U
Vinyl chloride	15.000	ug/kg C UJ	12.000	ug/kg C U	11.000	ug/kg D U
Xylenes, Total	15.000	ug/kg C UJ	12.000	ug/kg C UJ	11.000	ug/kg D U
cis-1,3-Dichloropropene	15.000	ug/kg C UJ	12.000	ug/kg C U	11.000	ug/kg D U
trans-1,3-Dichloropropene	15.000	ug/kg C UJ	12.000	ug/kg C U	11.000	ug/kg D U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
1,2-Dichlorobenzene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
1,3-Dichlorobenzene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
1,4-Dichlorobenzene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
2,4,5-Trichlorophenol	1200.000	ug/kg C U	1000.000	ug/kg C U	860.000	ug/kg D U
2,4,6-Trichlorophenol	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
2,4-Dichlorophenol	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
2,4-Dimethylphenol	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
2,4-Dinitrophenol	1200.000	ug/kg C UJ	1000.000	ug/kg C UJ	860.000	ug/kg D UJ
2,4-Dinitrotoluene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
2,6-Dinitrotoluene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
2-Chloronaphthalene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
2-Chlorophenol	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
2-Methylnaphthalene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
2-Methylphenol	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
2-Nitroaniline	1200.000	ug/kg C U	1000.000	ug/kg C U	860.000	ug/kg D U
2-Nitrophenol	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
3,3'-Dichlorobenzidine	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1994	1994	1994			
SAMPLE NUMBER	116283	116301	116312			
SAMPLING DATE	14-15.5 05/12/93	26-27.5 05/13/93	36-37.5 05/13/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
3-Nitroaniline	1200.000	ug/kg C U	1000.000	ug/kg C U	860.000	ug/kg D U
4,6-Dinitro-2-methylphenol	1200.000	ug/kg C U	1000.000	ug/kg C U	860.000	ug/kg D U
4-Bromophenyl phenyl ether	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
4-Chloro-3-methylphenol	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
4-Chlorophenylphenyl ether	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
4-Methylphenol	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
4-Nitroaniline	1200.000	ug/kg C U	1000.000	ug/kg C U	860.000	ug/kg D U
4-Nitrophenol	1200.000	ug/kg C U	1000.000	ug/kg C U	860.000	ug/kg D U
Acenaphthene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Acenaphthylene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Anthracene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Benzo(a)anthracene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Benzo(a)pyrene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Benzo(b)fluoranthene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Benzo(g,h,i)perylene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Benzo(k)fluoranthene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Butyl benzyl phthalate	500.000	ug/kg C U	41.000	ug/kg C U	350.000	ug/kg D U
Carbazole	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Chrysene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Di-n-butyl phthalate	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Di-n-octyl phthalate	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Dibenzo(a,h)anthracene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Dibenzofuran	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Diethyl phthalate	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Dimethyl phthalate	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Fluoranthene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Fluorene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Hexachlorobenzene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Hexachlorobutadiene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Hexachlorocyclopentadiene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Hexachloroethane	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Indeno(1,2,3-cd)pyrene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Isophorone	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
N-Nitroso-di-n-propylamine	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
N-Nitrosodiphenylamine	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Naphthalene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Nitrobenzene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Pentachlorophenol	1200.000	ug/kg C U	1000.000	ug/kg C U	860.000	ug/kg D U
Phenanthrene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Pheno1	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
Pyrene	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U
bis(2-Chloroethoxy)methane	500.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg D U

TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
bis(2-Chloroethyl)ether	500.000	ug/kg	C	U	410.000	ug/kg	C	U	350.000	ug/kg	D	U
bis(2-Chloroisopropyl) ether	500.000	ug/kg	C	U	410.000	ug/kg	C	U	350.000	ug/kg	D	U
bis(2-Ethylhexyl) phthalate	660.000	ug/kg	C	-	990.000	ug/kg	C	-	48.000	ug/kg	D	J
p-Chloroaniline	500.000	ug/kg	C	U	410.000	ug/kg	C	U	350.000	ug/kg	D	U
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	4.900	ug/kg	C	UJ	4.100	ug/kg	C	U	3.500	ug/kg	D	U
4,4'-DDE	4.900	ug/kg	C	UJ	4.100	ug/kg	C	U	3.500	ug/kg	D	U
4,4'-DDT	4.900	ug/kg	C	UJ	4.100	ug/kg	C	U	3.500	ug/kg	D	U
Aldrin	2.500	ug/kg	C	UJ	2.100	ug/kg	C	U	1.800	ug/kg	D	U
Aroclor-1016	49.000	ug/kg	C	U	41.000	ug/kg	C	U	35.000	ug/kg	D	U
Aroclor-1221	99.000	ug/kg	C	U	83.000	ug/kg	C	U	72.000	ug/kg	D	U
Aroclor-1232	49.000	ug/kg	C	U	41.000	ug/kg	C	U	35.000	ug/kg	D	U
Aroclor-1242	49.000	ug/kg	C	U	41.000	ug/kg	C	U	35.000	ug/kg	D	U
Aroclor-1248	49.000	ug/kg	C	U	41.000	ug/kg	C	U	35.000	ug/kg	D	U
Aroclor-1254	49.000	ug/kg	C	U	41.000	ug/kg	C	U	35.000	ug/kg	D	U
Aroclor-1260	49.000	ug/kg	C	U	41.000	ug/kg	C	U	35.000	ug/kg	D	U
Dieldrin	4.900	ug/kg	C	UJ	4.100	ug/kg	C	U	3.500	ug/kg	D	U
Endosulfan II	4.900	ug/kg	C	UJ	4.100	ug/kg	C	U	3.500	ug/kg	D	U
Endosulfan sulfate	4.900	ug/kg	C	UJ	4.100	ug/kg	C	U	3.500	ug/kg	D	U
Endosulfan-I	2.500	ug/kg	C	UJ	2.100	ug/kg	C	U	1.800	ug/kg	D	U
Endrin	4.900	ug/kg	C	UJ	4.100	ug/kg	C	U	3.500	ug/kg	D	U
Endrin aldehyde	4.900	ug/kg	C	UJ	4.100	ug/kg	C	U	3.500	ug/kg	D	U
Endrin ketone	4.900	ug/kg	C	UJ	4.100	ug/kg	C	U	3.500	ug/kg	D	U
Heptachlor	2.500	ug/kg	C	UJ	2.100	ug/kg	C	U	1.800	ug/kg	D	U
Heptachlor epoxide	2.500	ug/kg	C	UJ	2.100	ug/kg	C	U	1.800	ug/kg	D	U
Methoxychlor	25.000	ug/kg	C	UJ	21.000	ug/kg	C	U	18.000	ug/kg	D	U
Toxaphene	250.000	ug/kg	C	U	210.000	ug/kg	C	U	180.000	ug/kg	D	U
alpha-BHC	2.500	ug/kg	C	UJ	2.100	ug/kg	C	U	1.800	ug/kg	D	U
alpha-Chlordane	2.500	ug/kg	C	UJ	2.100	ug/kg	C	U	1.800	ug/kg	D	U
beta-BHC	2.500	ug/kg	C	UJ	2.100	ug/kg	C	U	1.800	ug/kg	D	U
delta-BHC	2.500	ug/kg	C	UJ	2.100	ug/kg	C	U	1.800	ug/kg	D	U
gamma-BHC (Lindane)	2.500	ug/kg	C	UJ	2.100	ug/kg	C	U	1.800	ug/kg	D	U
gamma-Chlordane	2.500	ug/kg	C	UJ	2.100	ug/kg	C	U	1.800	ug/kg	D	U

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1995	1995	1995			
SAMPLE NUMBER	116080	116090	116392			
SAMPLING DATE	2-3-5 05/01/93	8-9 05/01/93	8-9-5 06/07/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Inorganics						
Aluminum	8470.000	mg/kg C -	7030.000	mg/kg C -	NA	
Antimony	0.330	mg/kg C R	1.000	mg/kg C R	NA	
Arsenic	9.700	mg/kg C J	81.800	mg/kg C J	NA	
Barium	95.100	mg/kg C -	357.000	mg/kg C -	NA	
Beryllium	1.600	mg/kg C -	8.700	mg/kg C -	NA	
Cadmium	0.470	mg/kg C -	0.480	mg/kg C U	NA	
Calcium	97100.000	mg/kg C -	4260.000	mg/kg C -	NA	
Chromium	12.100	mg/kg C -	7.900	mg/kg C -	NA	
Cobalt	6.100	mg/kg C -	10.600	mg/kg C -	NA	
Copper	16.800	mg/kg C -	41.200	mg/kg C -	NA	
Cyanide	0.120	mg/kg C U	0.250	mg/kg C -	NA	
Iron	16100.000	mg/kg C -	6180.000	mg/kg C -	NA	
Lead	14.000	mg/kg C J	11.500	mg/kg C J	NA	
Magnesium	16000.000	mg/kg C J	512.000	mg/kg C J	NA	
Manganese	358.000	mg/kg C -	23.100	mg/kg C -	NA	
Mercury	0.110	mg/kg C U	0.120	mg/kg C U	NA	
Molybdenum	0.720	mg/kg C -	8.000	mg/kg C -	NA	
Nickel	14.800	mg/kg C -	18.600	mg/kg C -	NA	
Potassium	872.000	mg/kg C J	1080.000	mg/kg C J	NA	
Selenium	0.230	mg/kg C UJ	4.100	mg/kg C -	NA	
Silicon	778.000	mg/kg C -	919.000	mg/kg C -	NA	
Silver	0.470	mg/kg C U	0.480	mg/kg C U	NA	
Sodium	149.000	mg/kg C J	497.000	mg/kg C J	NA	
Thallium	0.230	mg/kg C U	2.100	mg/kg C -	NA	
Vanadium	26.500	mg/kg C J	53.200	mg/kg C J	NA	
Zinc	45.600	mg/kg C -	18.700	mg/kg C -	NA	
Volatile Organics						
1,1,1-Trichloroethane	32.000	ug/kg C J	1600.000	ug/kg C UJ	920.000	ug/kg C J
1,1,2,2-Tetrachloroethane	11.000	ug/kg C R	1600.000	ug/kg C UJ	13.000	ug/kg C R
1,1,2-Trichloroethane	11.000	ug/kg C UJ	1600.000	ug/kg C UJ	13.000	ug/kg C R
1,1-Dichloroethane	11.000	ug/kg C UJ	1600.000	ug/kg C UJ	13.000	ug/kg C U
1,1-Dichloroethene	11.000	ug/kg C UJ	1600.000	ug/kg C UJ	13.000	ug/kg C U
1,2-Dichloroethane	11.000	ug/kg C UJ	1600.000	ug/kg C UJ	13.000	ug/kg C U
1,2-Dichloroethene	11.000	ug/kg C UJ	1600.000	ug/kg C UJ	13.000	ug/kg C U
1,2-Dichloropropane	11.000	ug/kg C UJ	1600.000	ug/kg C UJ	13.000	ug/kg C R
2-Butanone	11.000	ug/kg C UJ	1600.000	ug/kg C UJ	13.000	ug/kg C U
2-Hexanone	11.000	ug/kg C R	1600.000	ug/kg C UJ	13.000	ug/kg C R
4-Methyl-2-pentanone	11.000	ug/kg C R	1600.000	ug/kg C UJ	13.000	ug/kg C R
Acetone	11.000	ug/kg C UJ	1600.000	ug/kg C UJ	10.000	ug/kg C J
Benzene	11.000	ug/kg C UJ	1600.000	ug/kg C UJ	13.000	ug/kg C R

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
Bromodichloromethane	11.000	ug/kg	C	UJ	1600.000	ug/kg	C	UJ	13.000	ug/kg	C	R
Bromoform	11.000	ug/kg	C	UJ	1600.000	ug/kg	C	UJ	13.000	ug/kg	C	R
Bromomethane	11.000	ug/kg	C	UJ	1600.000	ug/kg	C	UJ	13.000	ug/kg	C	U
Carbon Tetrachloride	11.000	ug/kg	C	UJ	1600.000	ug/kg	C	UJ	13.000	ug/kg	C	R
Carbon disulfide	11.000	ug/kg	C	UJ	1600.000	ug/kg	C	UJ	13.000	ug/kg	C	U
Chlorobenzene	11.000	ug/kg	C	R	1600.000	ug/kg	C	UJ	13.000	ug/kg	C	R
Chloroethane	11.000	ug/kg	C	UJ	1600.000	ug/kg	C	UJ	13.000	ug/kg	C	U
Chloroform	11.000	ug/kg	C	UJ	1600.000	ug/kg	C	UJ	13.000	ug/kg	C	U
Chloromethane	11.000	ug/kg	C	UJ	1600.000	ug/kg	C	UJ	13.000	ug/kg	C	UJ
Dibromochloromethane	11.000	ug/kg	C	UJ	1600.000	ug/kg	C	UJ	13.000	ug/kg	C	R
Ethylbenzene	11.000	ug/kg	C	R	1600.000	ug/kg	C	UJ	13.000	ug/kg	C	R
Methylene chloride	13.000	ug/kg	C	UJ	180.000	ug/kg	C	J	67.000	ug/kg	C	J
Styrene	13.000	ug/kg	C	UJ	1600.000	ug/kg	C	UJ	13.000	ug/kg	C	R
Tetrachloroethene	11.000	ug/kg	C	R	1600.000	ug/kg	C	UJ	13.000	ug/kg	C	R
Toluene	14.000	ug/kg	C	J	1800.000	ug/kg	C	J	25.000	ug/kg	C	J
Trichloroethene	11.000	ug/kg	C	UJ	1600.000	ug/kg	C	UJ	2.000	ug/kg	C	J
Vinyl Acetate	11.000	ug/kg	C	UJ	NA				13.000	ug/kg	C	R
Vinyl chloride	11.000	ug/kg	C	UJ	1600.000	ug/kg	C	UJ	13.000	ug/kg	C	U
Xylenes, Total	11.000	ug/kg	C	R	1600.000	ug/kg	C	UJ	13.000	ug/kg	C	R
cis-1,3-Dichloropropene	11.000	ug/kg	C	UJ	1600.000	ug/kg	C	UJ	13.000	ug/kg	C	R
trans-1,3-Dichloropropene	11.000	ug/kg	C	UJ	1600.000	ug/kg	C	UJ	13.000	ug/kg	C	R
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	370.000	ug/kg	C	U	420.000	ug/kg	C	U	NA			
1,2-Dichlorobenzene	370.000	ug/kg	C	U	420.000	ug/kg	C	U	NA			
1,3-Dichlorobenzene	370.000	ug/kg	C	U	420.000	ug/kg	C	U	NA			
1,4-Dichlorobenzene	370.000	ug/kg	C	U	420.000	ug/kg	C	U	NA			
2,4,5-Trichlorophenol	890.000	ug/kg	C	U	1000.000	ug/kg	C	U	NA			
2,4,6-Trichlorophenol	370.000	ug/kg	C	U	420.000	ug/kg	C	U	NA			
2,4-Dichlorophenol	370.000	ug/kg	C	U	420.000	ug/kg	C	U	NA			
2,4-Dimethylphenol	370.000	ug/kg	C	U	420.000	ug/kg	C	U	NA			
2,4-Dinitrophenol	890.000	ug/kg	C	U	1000.000	ug/kg	C	U	NA			
2,4-Dinitrotoluene	370.000	ug/kg	C	U	420.000	ug/kg	C	U	NA			
2,6-Dinitrotoluene	370.000	ug/kg	C	U	420.000	ug/kg	C	U	NA			
2-Chloronaphthalene	370.000	ug/kg	C	U	420.000	ug/kg	C	U	NA			
2-Chlorophenol	370.000	ug/kg	C	U	420.000	ug/kg	C	U	NA			
2-Methylnaphthalene	370.000	ug/kg	C	U	420.000	ug/kg	C	U	NA			
2-Methylphenol	370.000	ug/kg	C	U	420.000	ug/kg	C	U	NA			
2-Nitroaniline	890.000	ug/kg	C	U	1000.000	ug/kg	C	U	NA			
2-Nitrophenol	370.000	ug/kg	C	U	420.000	ug/kg	C	U	NA			
3,3'-Dichlorobenzidine	370.000	ug/kg	C	U	420.000	ug/kg	C	U	NA			

TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1995	1995	1995		
SAMPLE NUMBER	116080	116090	116392		
SAMPLING DATE	2-3-5 05/01/93	8-9 05/01/93	8-9.5 06/07/93		
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS		
Semivolatile Organics					
3-Nitroaniline	890.000	ug/kg C U	1000.000	ug/kg C UJ	NA
4,6-Dinitro-2-methylphenol	890.000	ug/kg C U	1000.000	ug/kg C U	NA
4-Bromophenyl phenyl ether	370.000	ug/kg C U	420.000	ug/kg C U	NA
4-Chloro-3-methylphenol	370.000	ug/kg C U	420.000	ug/kg C U	NA
4-Chlorophenylphenyl ether	370.000	ug/kg C U	420.000	ug/kg C U	NA
4-Methylphenol	370.000	ug/kg C U	420.000	ug/kg C U	NA
4-Nitroaniline	890.000	ug/kg C U	1000.000	ug/kg C U	NA
4-Nitrophenol	890.000	ug/kg C U	1000.000	ug/kg C U	NA
Acenaphthene	370.000	ug/kg C U	420.000	ug/kg C U	NA
Acenaphthylene	370.000	ug/kg C U	420.000	ug/kg C U	NA
Anthracene	370.000	ug/kg C U	420.000	ug/kg C U	NA
Benzo(a)anthracene	39.000	ug/kg C J	420.000	ug/kg C U	NA
Benzo(a)pyrene	370.000	ug/kg C U	420.000	ug/kg C U	NA
Benzo(b)fluoranthene	370.000	ug/kg C U	420.000	ug/kg C U	NA
Benzo(g,h,i)perylene	370.000	ug/kg C U	420.000	ug/kg C U	NA
Benzo(k)fluoranthene	43.000	ug/kg C J	420.000	ug/kg C U	NA
Benzoic acid	1800.000	ug/kg C U	2100.000	ug/kg C U	NA
Benzyl alcohol	370.000	ug/kg C U	430.000	ug/kg C U	NA
Butyl benzyl phthalate	370.000	ug/kg C U	420.000	ug/kg C U	NA
Carbazole	370.000	ug/kg C U	420.000	ug/kg C U	NA
Chrysene	48.000	ug/kg C J	420.000	ug/kg C U	NA
Di-n-butyl phthalate	370.000	ug/kg C U	420.000	ug/kg C U	NA
Di-n-octyl phthalate	370.000	ug/kg C U	420.000	ug/kg C UJ	NA
Dibenzo(a,h)anthracene	370.000	ug/kg C U	420.000	ug/kg C U	NA
Dibenzofuran	370.000	ug/kg C U	420.000	ug/kg C U	NA
Diethyl phthalate	370.000	ug/kg C U	420.000	ug/kg C U	NA
Dimethyl phthalate	370.000	ug/kg C U	420.000	ug/kg C U	NA
Fluoranthene	99.000	ug/kg C J	420.000	ug/kg C U	NA
Fluorene	370.000	ug/kg C U	420.000	ug/kg C U	NA
Hexachlorobenzene	370.000	ug/kg C U	420.000	ug/kg C U	NA
Hexachlorobutadiene	370.000	ug/kg C U	420.000	ug/kg C U	NA
Hexachlorocyclopentadiene	370.000	ug/kg C U	420.000	ug/kg C UJ	NA
Hexachloroethane	370.000	ug/kg C U	420.000	ug/kg C U	NA
Indeno(1,2,3-cd)pyrene	370.000	ug/kg C U	420.000	ug/kg C U	NA
Isophorone	370.000	ug/kg C U	420.000	ug/kg C U	NA
N-Nitroso-di-n-propylamine	370.000	ug/kg C U	420.000	ug/kg C U	NA
N-Nitrosodiphenylamine	370.000	ug/kg C U	420.000	ug/kg C U	NA
Naphthalene	370.000	ug/kg C U	420.000	ug/kg C U	NA
Nitrobenzene	370.000	ug/kg C U	420.000	ug/kg C U	NA
Pentachlorophenol	890.000	ug/kg C U	1000.000	ug/kg C U	NA
Phenanthrene	56.000	ug/kg C J	420.000	ug/kg C U	NA
Phenol	370.000	ug/kg C U	420.000	ug/kg C U	NA

TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1995		1995		1995
SAMPLE NUMBER	116080		116090		116392
SAMPLING DATE	2-3-5 05/01/93		8-9 05/01/93		8-9.5 06/07/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>					
Pyrene	96.000	ug/kg C J	420.000	ug/kg C U	NA
bis(2-Chloroethoxy)methane	370.000	ug/kg C U	420.000	ug/kg C U	NA
bis(2-Chloroethyl)ether	370.000	ug/kg C U	420.000	ug/kg C U	NA
bis(2-Chloroisopropyl) ether	370.000	ug/kg C U	420.000	ug/kg C UJ	NA
bis(2-Ethylhexyl) phthalate	2600.000	ug/kg C -	1600.000	ug/kg C -	NA
p-Chloroaniline	370.000	ug/kg C U	420.000	ug/kg C UJ	NA
<u>Pesticide Organics/PCBs</u>					
4,4'-DDD	3.700	ug/kg C UJ	4.200	ug/kg C U	NA
4,4'-DDE	3.700	ug/kg C UJ	4.200	ug/kg C U	NA
4,4'-DDT	3.700	ug/kg C UJ	4.200	ug/kg C U	NA
Aldrin	1.900	ug/kg C UJ	2.200	ug/kg C U	NA
Aroclor-1016	37.000	ug/kg C UJ	42.000	ug/kg C U	NA
Aroclor-1221	75.000	ug/kg C UJ	86.000	ug/kg C U	NA
Aroclor-1232	37.000	ug/kg C UJ	42.000	ug/kg C U	NA
Aroclor-1242	37.000	ug/kg C UJ	42.000	ug/kg C U	NA
Aroclor-1248	37.000	ug/kg C UJ	42.000	ug/kg C U	NA
Aroclor-1254	120.000	ug/kg C J	42.000	ug/kg C U	NA
Aroclor-1260	37.000	ug/kg C UJ	42.000	ug/kg C U	NA
Dieldrin	3.700	ug/kg C UJ	4.200	ug/kg C U	NA
Endosulfan II	3.700	ug/kg C UJ	4.200	ug/kg C U	NA
Endosulfan sulfate	3.700	ug/kg C UJ	4.200	ug/kg C U	NA
Endosulfan-I	1.900	ug/kg C UJ	2.200	ug/kg C U	NA
Endrin	3.700	ug/kg C UJ	4.200	ug/kg C U	NA
Endrin aldehyde	3.700	ug/kg C UJ	4.200	ug/kg C U	NA
Endrin ketone	3.700	ug/kg C UJ	4.200	ug/kg C U	NA
Heptachlor	1.900	ug/kg C UJ	2.200	ug/kg C U	NA
Heptachlor epoxide	1.900	ug/kg C UJ	2.200	ug/kg C U	NA
Methoxychlor	19.000	ug/kg C UJ	22.000	ug/kg C U	NA
Toxaphene	190.000	ug/kg C UJ	220.000	ug/kg C U	NA
alpha-BHC	1.900	ug/kg C UJ	2.200	ug/kg C U	NA
alpha-Chlordane	3.300	ug/kg C J	2.200	ug/kg C U	NA
beta-BHC	1.900	ug/kg C UJ	2.200	ug/kg C U	NA
delta-BHC	1.900	ug/kg C UJ	2.200	ug/kg C U	NA
gamma-BHC (Lindane)	1.900	ug/kg C UJ	2.200	ug/kg C U	NA
gamma-Chlordane	1.900	ug/kg C UJ	2.200	ug/kg C U	NA

TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1995	1996	1996
SAMPLE NUMBER	116172	112077	112084
SAMPLING DATE	30-31.5 05/02/93	8-9.5 04/29/93	14-15 04/29/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Inorganics</u>			
Aluminum	12200.000	mg/kg C -	4980.000
Antimony	0.250	mg/kg C R	0.820
Arsenic	6.000	mg/kg C J	14.500
Barium	90.900	mg/kg C -	639.000
Beryllium	1.400	mg/kg C -	3.300
Cadmium	1.100	mg/kg C -	0.710
Calcium	9030.000	mg/kg C -	3320.000
Chromium	16.600	mg/kg C -	7.300
Cobalt	10.400	mg/kg C -	8.900
Copper	22.600	mg/kg C -	39.600
Cyanide	0.120	mg/kg C U	0.490
Iron	24800.000	mg/kg C -	7840.000
Lead	25.900	mg/kg C J	9.100
Magnesium	3360.000	mg/kg C J	597.000
Manganese	1200.000	mg/kg C -	89.200
Mercury	0.120	mg/kg C U	0.130
Molybdenum	1.400	mg/kg C -	4.700
Nickel	25.200	mg/kg C -	15.900
Potassium	1310.000	mg/kg C J	1070.000
Selenium	0.240	mg/kg C UJ	2.300
Silicon	1080.000	mg/kg C -	617.000
Silver	0.490	mg/kg C -	0.500
Sodium	166.000	mg/kg C J	297.000
Thallium	0.240	mg/kg C U	0.570
Vanadium	26.200	mg/kg C J	27.400
Zinc	66.900	mg/kg C -	12.900
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	1.000	ug/kg C J	67.000
1,1,2,2-Tetrachloroethane	12.000	ug/kg C U	67.000
1,1,2-Trichloroethane	12.000	ug/kg C U	67.000
1,1-Dichloroethane	12.000	ug/kg C U	67.000
1,1-Dichloroethene	12.000	ug/kg C U	67.000
1,2-Dichloroethane	12.000	ug/kg C U	67.000
1,2-Dichloroethene	12.000	ug/kg C U	67.000
1,2-Dichloropropene	12.000	ug/kg C U	67.000
2-Butanone	12.000	ug/kg C U	67.000
2-Hexanone	12.000	ug/kg C U	67.000
4-Methyl-2-pentanone	12.000	ug/kg C U	67.000
Acetone	15.000	ug/kg C U	67.000
Benzene	12.000	ug/kg C U	67.000

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
CHEMICAL PARAMETERS												
Bromodichloromethane	12.000	ug/kg	C	U	67.000	ug/kg	C	U	64.000	ug/kg	C	UJ
Bromoform	12.000	ug/kg	C	U	67.000	ug/kg	C	U	64.000	ug/kg	C	UJ
Bromomethane	12.000	ug/kg	C	U	67.000	ug/kg	C	U	64.000	ug/kg	C	UJ
Carbon Tetrachloride	12.000	ug/kg	C	U	67.000	ug/kg	C	U	64.000	ug/kg	C	UJ
Carbon disulfide	12.000	ug/kg	C	U	67.000	ug/kg	C	U	64.000	ug/kg	C	UJ
Chlorobenzene	12.000	ug/kg	C	U	67.000	ug/kg	C	U	64.000	ug/kg	C	UJ
Chloroethane	12.000	ug/kg	C	UJ	67.000	ug/kg	C	UJ	64.000	ug/kg	C	UJ
Chloroform	12.000	ug/kg	C	U	67.000	ug/kg	C	U	64.000	ug/kg	C	UJ
Chloromethane	12.000	ug/kg	C	UJ	67.000	ug/kg	C	U	64.000	ug/kg	C	UJ
Dibromochloromethane	12.000	ug/kg	C	U	67.000	ug/kg	C	U	64.000	ug/kg	C	UJ
Ethylbenzene	12.000	ug/kg	C	U	67.000	ug/kg	C	U	64.000	ug/kg	C	UJ
Methylene chloride	12.000	ug/kg	C	U	67.000	ug/kg	C	U	64.000	ug/kg	C	UJ
Styrene	12.000	ug/kg	C	U	67.000	ug/kg	C	U	64.000	ug/kg	C	UJ
Tetrachloroethene	12.000	ug/kg	C	U	67.000	ug/kg	C	U	64.000	ug/kg	C	UJ
Toluene	12.000	ug/kg	C	U	180.000	ug/kg	C	U	1000.000	ug/kg	C	J
Trichloroethene	12.000	ug/kg	C	U	67.000	ug/kg	C	U	64.000	ug/kg	C	UJ
Vinyl chloride	12.000	ug/kg	C	UJ	67.000	ug/kg	C	U	64.000	ug/kg	C	UJ
Kylenes, Total	12.000	ug/kg	C	U	67.000	ug/kg	C	U	64.000	ug/kg	C	UJ
cis-1,3-Dichloropropene	12.000	ug/kg	C	U	67.000	ug/kg	C	U	64.000	ug/kg	C	UJ
trans-1,3-Dichloropropene	12.000	ug/kg	C	U	67.000	ug/kg	C	U	64.000	ug/kg	C	UJ
Semivolatile Organics												
1,2,4-Trichlorobenzene	410.000	ug/kg	C	U	430.000	ug/kg	C	UJ	500.000	ug/kg	C	UJ
1,2-Dichlorobenzene	410.000	ug/kg	C	U	430.000	ug/kg	C	U	500.000	ug/kg	C	U
1,3-Dichlorobenzene	410.000	ug/kg	C	U	430.000	ug/kg	C	U	500.000	ug/kg	C	U
1,4-Dichlorobenzene	410.000	ug/kg	C	U	430.000	ug/kg	C	U	500.000	ug/kg	C	U
2,4,5-Trichlorophenol	1000.000	ug/kg	C	U	1000.000	ug/kg	C	U	1200.000	ug/kg	C	U
2,4,6-Trichlorophenol	410.000	ug/kg	C	U	430.000	ug/kg	C	U	500.000	ug/kg	C	U
2,4-Dichlorophenol	410.000	ug/kg	C	U	430.000	ug/kg	C	U	500.000	ug/kg	C	U
2,4-Dimethylphenol	410.000	ug/kg	C	U	430.000	ug/kg	C	U	500.000	ug/kg	C	U
2,4-Dinitrophenol	1000.000	ug/kg	C	U	1000.000	ug/kg	C	UJ	1200.000	ug/kg	C	UJ
2,4-Dinitrotoluene	410.000	ug/kg	C	U	430.000	ug/kg	C	U	500.000	ug/kg	C	U
2,6-Dinitrotoluene	410.000	ug/kg	C	U	430.000	ug/kg	C	U	500.000	ug/kg	C	U
2-Chloronaphthalene	410.000	ug/kg	C	U	430.000	ug/kg	C	U	500.000	ug/kg	C	U
2-Chlorophenol	410.000	ug/kg	C	U	430.000	ug/kg	C	U	500.000	ug/kg	C	U
2-Methylnaphthalene	410.000	ug/kg	C	U	74.000	ug/kg	C	J	500.000	ug/kg	C	U
2-Methylphenol	410.000	ug/kg	C	U	430.000	ug/kg	C	UJ	500.000	ug/kg	C	UJ
2-Nitroaniline	1000.000	ug/kg	C	U	1000.000	ug/kg	C	U	1200.000	ug/kg	C	U
2-Nitrophenol	410.000	ug/kg	C	U	430.000	ug/kg	C	U	500.000	ug/kg	C	U
3,3'-Dichlorobenzidine	410.000	ug/kg	C	U	430.000	ug/kg	C	U	500.000	ug/kg	C	U
3-Nitroaniline	1000.000	ug/kg	C	UJ	1000.000	ug/kg	C	UJ	1200.000	ug/kg	C	UJ

TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1995	1996	1996			
SAMPLE NUMBER	116172	112077	112084			
SAMPLING DATE	30-31.5 05/02/93	8-9.5 04/29/93	14-15 04/29/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Semivolatile Organics						
4,6-Dinitro-2-methylphenol	1000.000	ug/kg C U	1000.000	ug/kg C U	1200.000	ug/kg C U
4-Bromophenyl phenyl ether	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
4-Chloro-3-methylphenol	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
4-Chlorophenylphenyl ether	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
4-Methylphenol	410.000	ug/kg C U	430.000	ug/kg C UJ	500.000	ug/kg C UJ
4-Nitroaniline	1000.000	ug/kg C U	1000.000	ug/kg C R	1200.000	ug/kg C R
4-Nitrophenol	1000.000	ug/kg C U	1000.000	ug/kg C U	1200.000	ug/kg C U
Acenaphthene	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
Acenaphthylene	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
Anthracene	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
Benzo(a)anthracene	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
Benzo(a)pyrene	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
Benzo(b)fluoranthene	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
Benzo(g,h,i)perylene	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
Benzo(k)fluoranthene	410.000	ug/kg C U	430.000	ug/kg C UJ	500.000	ug/kg C UJ
Benzoic acid	2000.000	ug/kg C U	2100.000	ug/kg C U	2400.000	ug/kg C U
Benzyl alcohol	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
Butyl benzyl phthalate	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
Carbazole	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
Chrysene	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
Di-n-butyl phthalate	410.000	ug/kg C U	110.000	ug/kg C J	500.000	ug/kg C U
Di-n-octyl phthalate	410.000	ug/kg C UJ	430.000	ug/kg C U	500.000	ug/kg C U
Dibenz(a,h)anthracene	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
Dibenzofuran	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
Diethyl phthalate	180.000	ug/kg C J	430.000	ug/kg C UJ	500.000	ug/kg C UJ
Dimethyl phthalate	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
Fluoranthene	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
Fluorene	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
Hexachlorobenzene	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
Hexachlorobutadiene	410.000	ug/kg C U	430.000	ug/kg C R	500.000	ug/kg C R
Hexachlorocyclopentadiene	410.000	ug/kg C UJ	430.000	ug/kg C U	500.000	ug/kg C U
Hexachloroethane	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
Indeno(1,2,3-cd)pyrene	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
Isophorone	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
N-Nitroso-di-n-propylamine	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
N-Nitrosodiphenylamine	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
Naphthalene	410.000	ug/kg C U	81.000	ug/kg C J	500.000	ug/kg C U
Nitrobenzene	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
Pentachlorophenol	1000.000	ug/kg C U	1000.000	ug/kg C U	1200.000	ug/kg C U
Phenanthrene	410.000	ug/kg C U	60.000	ug/kg C J	500.000	ug/kg C U
Phenol	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U
Pyrene	410.000	ug/kg C U	430.000	ug/kg C U	500.000	ug/kg C U

TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1995		1996		1996							
SAMPLE NUMBER	116172		112077		112084							
SAMPLING DATE	30-31.5 05/02/93		8-9.5 04/29/93		14-15 04/29/93							
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS							
<u>Semivolatile Organics</u>												
bis(2-Chloroethoxy)methane	410.000	ug/kg	C	U	430.000	ug/kg	C	U	500.000	ug/kg	C	U
bis(2-Chloroethyl)ether	410.000	ug/kg	C	U	430.000	ug/kg	C	U	500.000	ug/kg	C	U
bis(2-Chloroisopropyl) ether	410.000	ug/kg	C	UJ	430.000	ug/kg	C	UJ	500.000	ug/kg	C	UJ
bis(2-Ethylhexyl) phthalate	58.000	ug/kg	C	J	260.000	ug/kg	C	J	2800.000	ug/kg	C	-
p-Chloroaniline	410.000	ug/kg	C	UJ	430.000	ug/kg	C	U	500.000	ug/kg	C	U
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	4.100	ug/kg	C	U	4.300	ug/kg	C	UJ	5.000	ug/kg	C	U
4,4'-DDE	4.100	ug/kg	C	U	4.300	ug/kg	C	UJ	5.000	ug/kg	C	U
4,4'-DDT	4.100	ug/kg	C	U	4.300	ug/kg	C	UJ	5.000	ug/kg	C	U
Aldrin	2.100	ug/kg	C	U	2.200	ug/kg	C	UJ	2.600	ug/kg	C	U
Aroclor-1016	41.000	ug/kg	C	UJ	43.000	ug/kg	C	U	50.000	ug/kg	C	U
Aroclor-1221	83.000	ug/kg	C	UJ	86.000	ug/kg	C	U	100.000	ug/kg	C	U
Aroclor-1232	41.000	ug/kg	C	UJ	43.000	ug/kg	C	U	50.000	ug/kg	C	U
Aroclor-1242	41.000	ug/kg	C	UJ	43.000	ug/kg	C	U	50.000	ug/kg	C	U
Aroclor-1248	41.000	ug/kg	C	UJ	43.000	ug/kg	C	U	50.000	ug/kg	C	U
Aroclor-1254	41.000	ug/kg	C	UJ	43.000	ug/kg	C	U	50.000	ug/kg	C	U
Aroclor-1260	41.000	ug/kg	C	UJ	43.000	ug/kg	C	U	50.000	ug/kg	C	U
Dieldrin	4.100	ug/kg	C	U	4.300	ug/kg	C	UJ	5.000	ug/kg	C	U
Endosulfan II	4.100	ug/kg	C	U	4.300	ug/kg	C	UJ	5.000	ug/kg	C	U
Endosulfan sulfate	4.100	ug/kg	C	U	4.300	ug/kg	C	UJ	5.000	ug/kg	C	U
Endosulfan-I	2.100	ug/kg	C	U	2.200	ug/kg	C	UJ	2.600	ug/kg	C	U
Endrin	4.100	ug/kg	C	U	4.300	ug/kg	C	UJ	5.000	ug/kg	C	U
Endrin aldehyde	4.100	ug/kg	C	UJ	4.300	ug/kg	C	U	5.000	ug/kg	C	U
Endrin ketone	4.100	ug/kg	C	U	4.300	ug/kg	C	U	5.000	ug/kg	C	U
Heptachlor	2.100	ug/kg	C	U	2.200	ug/kg	C	UJ	2.600	ug/kg	C	U
Heptachlor epoxide	2.100	ug/kg	C	U	2.200	ug/kg	C	UJ	2.600	ug/kg	C	U
Methoxychlor	21.000	ug/kg	C	U	22.000	ug/kg	C	UJ	26.000	ug/kg	C	UJ
Toxaphene	210.000	ug/kg	C	UJ	220.000	ug/kg	C	U	260.000	ug/kg	C	U
alpha-BHC	2.100	ug/kg	C	U	2.200	ug/kg	C	UJ	2.600	ug/kg	C	U
alpha-Chlordane	2.100	ug/kg	C	U	2.200	ug/kg	C	U	2.600	ug/kg	C	U
beta-BHC	2.100	ug/kg	C	U	2.200	ug/kg	C	UJ	2.600	ug/kg	C	U
delta-BHC	2.100	ug/kg	C	U	2.200	ug/kg	C	UJ	2.600	ug/kg	C	U
gamma-BHC (Lindane)	2.100	ug/kg	C	U	2.200	ug/kg	C	UJ	2.600	ug/kg	C	U
gamma-Chlordane	2.100	ug/kg	C	U	2.200	ug/kg	C	U	2.600	ug/kg	C	U

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1996	1996	1997
SAMPLE NUMBER	112087	116070	116177
SAMPLING DATE	16-16.5 04/29/93	20-21.5 04/29/93	0-1.5 05/05/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Inorganics</u>			
Aluminum	NA	mg/kg C	-
Antimony	NA	0.210	mg/kg C R
Arsenic	NA	4.800	mg/kg C J
Barium	NA	8.000	mg/kg C
Beryllium	NA	0.930	mg/kg C
Cadmium	NA	0.410	mg/kg C
Calcium	NA	121000.000	mg/kg C
Chromium	NA	4.600	mg/kg C
Cobalt	NA	4.200	mg/kg C
Copper	NA	9.300	mg/kg C
Cyanide	NA	0.110	mg/kg C
Iron	NA	6640.000	mg/kg C
Lead	NA	5.400	mg/kg C
Magnesium	NA	22300.000	mg/kg C
Manganese	NA	324.000	mg/kg C
Mercury	NA	0.100	mg/kg C
Molybdenum	NA	1.400	mg/kg C
Nickel	NA	8.200	mg/kg C
Potassium	NA	474.000	mg/kg C
Selenium	NA	0.200	mg/kg C UJ
Silicon	NA	525.000	mg/kg C
Silver	NA	0.410	mg/kg C U
Sodium	NA	187.000	mg/kg C J
Thallium	NA	0.200	mg/kg C U
Vanadium	NA	11.300	mg/kg C J
Zinc	NA	23.600	mg/kg C -
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	NA	13.000	ug/kg C UJ
1,1,2,2-Tetrachloroethane	NA	13.000	ug/kg C UJ
1,1,2-Trichloroethane	NA	13.000	ug/kg C UJ
1,1-Dichloroethane	NA	13.000	ug/kg C UJ
1,1-Dichloroethene	NA	13.000	ug/kg C UJ
1,2-Dichloroethane	NA	13.000	ug/kg C UJ
1,2-Dichloroethene	NA	13.000	ug/kg C UJ
1,2-Dichloropropane	NA	13.000	ug/kg C UJ
2-Butanone	NA	13.000	ug/kg C UJ
2-Hexanone	NA	13.000	ug/kg C UJ
4-Methyl-2-pentanone	NA	6.000	ug/kg C J
Acetone	NA	13.000	ug/kg C UJ
Benzene	NA	13.000	ug/kg C UJ

TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1996	1996	1997
SAMPLE NUMBER	112087 16-16.5	116070 20-21.5	116177 0-1.5
SAMPLING DATE	04/29/93	04/29/93	05/05/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Volatile Organics</u>			
Bromodichloromethane	NA		13.000 ug/kg C UJ
Bromoform	NA		13.000 ug/kg C UJ
Bromomethane	NA		13.000 ug/kg C UJ
Carbon Tetrachloride	NA		13.000 ug/kg C UJ
Carbon disulfide	NA		13.000 ug/kg C UJ
Chlorobenzene	NA		13.000 ug/kg C UJ
Chloroethane	NA		13.000 ug/kg C UJ
Chloroform	NA		13.000 ug/kg C UJ
Chloromethane	NA		13.000 ug/kg C UJ
Dibromochloromethane	NA		13.000 ug/kg C UJ
Ethylbenzene	NA		13.000 ug/kg C UJ
Methylene chloride	NA		13.000 ug/kg C UJ
Styrene	NA		13.000 ug/kg C UJ
Tetrachloroethene	NA		13.000 ug/kg C UJ
Toluene	NA		78.000 ug/kg C J
Trichloroethene	NA		13.000 ug/kg C UJ
Vinyl Acetate	NA		NA
Vinyl chloride	NA		13.000 ug/kg C UJ
Xylenes, Total	NA		13.000 ug/kg C UJ
cis-1,3-Dichloropropene	NA		13.000 ug/kg C UJ
trans-1,3-Dichloropropene	NA		13.000 ug/kg C UJ
<u>Semivolatile Organics</u>			
1,2,4-Trichlorobenzene	450.000 ug/kg D UJ		420.000 ug/kg C UJ
1,2-Dichlorobenzene	450.000 ug/kg D U		420.000 ug/kg C UJ
1,3-Dichlorobenzene	450.000 ug/kg D U		420.000 ug/kg C UJ
1,4-Dichlorobenzene	450.000 ug/kg D U		420.000 ug/kg C UJ
2,4,5-Trichlorophenol	1100.000 ug/kg D UU		1000.000 ug/kg C UJ
2,4,6-Trichlorophenol	450.000 ug/kg D U		420.000 ug/kg C UJ
2,4-Dichlorophenol	450.000 ug/kg D U		420.000 ug/kg C UJ
2,4-Dimethylphenol	450.000 ug/kg D U		420.000 ug/kg C UJ
2,4-Dinitrophenol	1100.000 ug/kg D UJ		1000.000 ug/kg C UJ
2,4-Dinitrotoluene	450.000 ug/kg D U		420.000 ug/kg C UJ
2,6-Dinitrotoluene	450.000 ug/kg D U		420.000 ug/kg C UJ
2-Chloronaphthalene	450.000 ug/kg D U		420.000 ug/kg C UJ
2-Chlorophenol	450.000 ug/kg D U		420.000 ug/kg C UJ
2-Methylnaphthalene	450.000 ug/kg D U		420.000 ug/kg C UJ
2-Methylphenol	450.000 ug/kg D UJ		420.000 ug/kg C UJ
2-Nitroaniline	1100.000 ug/kg D U		1000.000 ug/kg C UJ
2-Nitrophenol	450.000 ug/kg D U		420.000 ug/kg C UJ
3,3'-Dichlorobenzidine	450.000 ug/kg D UJ		420.000 ug/kg C UJ

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1996	1996	1997
SAMPLE NUMBER	112087	116070	116177
SAMPLING DATE	16-16.5 04/29/93	20-21.5 04/29/93	0-1.5 05/05/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
3-Nitroaniline	1100.000	ug/kg D UJ	1000.000
4,6-Dinitro-2-methylphenol	1100.000	ug/kg D U	1000.000
4-Bromophenyl phenyl ether	450.000	ug/kg D U	420.000
4-Chloro-3-methylphenol	450.000	ug/kg D U	420.000
4-Chlorophenylphenyl ether	450.000	ug/kg D U	420.000
4-Methylphenol	450.000	ug/kg D UJ	420.000
4-Nitroaniline	1100.000	ug/kg D R	1000.000
4-Nitropheno1	1100.000	ug/kg D U	1000.000
Acenaphthene	450.000	ug/kg D U	420.000
Acenaphthylene	450.000	ug/kg D U	420.000
Anthracene	450.000	ug/kg D U	420.000
Benzo(a)anthracene	450.000	ug/kg D U	420.000
Benzo(a)pyrene	450.000	ug/kg D U	420.000
Benzo(b)fluoranthene	450.000	ug/kg D U	420.000
Benzo(g,h,i)perylene	450.000	ug/kg D U	420.000
Benzo(k)fluoranthene	450.000	ug/kg D UJ	420.000
Benzoic acid	2200.000	ug/kg D U	2000.000
Benzyl alcohol	450.000	ug/kg D U	420.000
Butyl benzyl phthalate	450.000	ug/kg D U	420.000
Carbazole	450.000	ug/kg D U	420.000
Chrysene	450.000	ug/kg D U	420.000
Di-n-butyl phthalate	450.000	ug/kg D U	420.000
Di-n-octyl phthalate	450.000	ug/kg D U	420.000
Dibenzo(a,h)anthracene	450.000	ug/kg D U	420.000
Dibenzo furan	450.000	ug/kg D U	420.000
Diethyl phthalate	450.000	ug/kg D UJ	420.000
Dimethyl phthalate	450.000	ug/kg D U	420.000
Fluoranthene	450.000	ug/kg D U	420.000
Fluorene	450.000	ug/kg D U	420.000
Hexachlorobenzene	450.000	ug/kg D U	420.000
Hexachlorobutadiene	450.000	ug/kg D R	420.000
Hexachlorocyclopentadiene	450.000	ug/kg D U	420.000
Hexachloroethane	450.000	ug/kg D U	420.000
Indeno(1,2,3-cd)pyrene	450.000	ug/kg D U	420.000
Isophorone	450.000	ug/kg D U	420.000
N-Nitroso-di-n-propylamine	450.000	ug/kg D U	420.000
N-Nitrosodiphenylamine	450.000	ug/kg D U	420.000
Naphthalene	450.000	ug/kg D U	420.000
Nitrobenzene	450.000	ug/kg D U	420.000
Pentachlorophenol	1100.000	ug/kg D U	1000.000
Phenanthrene	450.000	ug/kg D U	420.000
Phenol	450.000	ug/kg D U	420.000

TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
Pyrene	450.000	ug/kg	D	U	420.000	ug/kg	C	UJ	400.000	ug/kg	C	U
bis(2-Chloroethoxy)methane	450.000	ug/kg	D	U	420.000	ug/kg	C	UJ	400.000	ug/kg	C	U
bis(2-Chloroethyl)ether	450.000	ug/kg	D	U	420.000	ug/kg	C	UJ	400.000	ug/kg	C	U
bis(2-Chloroisopropyl) ether	450.000	ug/kg	D	UJ	420.000	ug/kg	C	UJ	400.000	ug/kg	C	U
bis(2-Ethylhexyl) phthalate	450.000	ug/kg	D	U	130.000	ug/kg	C	J	400.000	ug/kg	C	U
p-Chloroaniline	450.000	ug/kg	D	UJ	420.000	ug/kg	C	UJ	400.000	ug/kg	C	U
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	4.400	ug/kg	D	U	4.200	ug/kg	C	U	4.000	ug/kg	C	UJ
4,4'-DDE	4.400	ug/kg	D	U	4.200	ug/kg	C	U	4.000	ug/kg	C	UJ
4,4'-DDT	4.400	ug/kg	D	U	4.200	ug/kg	C	U	4.000	ug/kg	C	UJ
Aldrin	2.300	ug/kg	D	U	2.100	ug/kg	C	U	2.100	ug/kg	C	UJ
Aroclor-1016	44.000	ug/kg	D	UJ	42.000	ug/kg	C	UJ	40.000	ug/kg	C	UJ
Aroclor-1221	90.000	ug/kg	D	UJ	85.000	ug/kg	C	UJ	81.000	ug/kg	C	UJ
Aroclor-1232	44.000	ug/kg	D	UJ	42.000	ug/kg	C	UJ	40.000	ug/kg	C	UJ
Aroclor-1242	44.000	ug/kg	D	UJ	42.000	ug/kg	C	UJ	40.000	ug/kg	C	UJ
Aroclor-1248	44.000	ug/kg	D	UJ	42.000	ug/kg	C	UJ	40.000	ug/kg	C	UJ
Aroclor-1254	44.000	ug/kg	D	UJ	42.000	ug/kg	C	UJ	40.000	ug/kg	C	UJ
Aroclor-1260	44.000	ug/kg	D	UJ	42.000	ug/kg	C	UJ	40.000	ug/kg	C	UJ
Dieldrin	4.400	ug/kg	D	U	4.200	ug/kg	C	U	4.000	ug/kg	C	UJ
Endosulfan II	4.400	ug/kg	D	U	4.200	ug/kg	C	U	4.000	ug/kg	C	UJ
Endosulfan sulfate	4.400	ug/kg	D	U	4.200	ug/kg	C	U	4.000	ug/kg	C	UJ
Endosulfan-I	2.300	ug/kg	D	U	2.100	ug/kg	C	U	2.100	ug/kg	C	UJ
Endrin	4.400	ug/kg	D	U	4.200	ug/kg	C	U	4.000	ug/kg	C	UJ
Endrin aldehyde	4.400	ug/kg	D	U	4.200	ug/kg	C	U	4.000	ug/kg	C	UJ
Endrin ketone	4.400	ug/kg	D	U	4.200	ug/kg	C	U	4.000	ug/kg	C	UJ
Heptachlor	2.300	ug/kg	D	U	2.100	ug/kg	C	U	2.100	ug/kg	C	UJ
Heptachlor epoxide	2.300	ug/kg	D	U	2.100	ug/kg	C	U	2.100	ug/kg	C	UJ
Methoxychlor	23.000	ug/kg	D	UJ	21.000	ug/kg	C	U	21.000	ug/kg	C	UJ
Toxaphene	230.000	ug/kg	D	UJ	210.000	ug/kg	C	UJ	210.000	ug/kg	C	UJ
alpha-BHC	2.300	ug/kg	D	U	2.100	ug/kg	C	U	2.100	ug/kg	C	UJ
alpha-Chlordane	2.300	ug/kg	D	U	2.100	ug/kg	C	U	2.100	ug/kg	C	UJ
beta-BHC	2.300	ug/kg	D	U	2.100	ug/kg	C	U	2.100	ug/kg	C	UJ
delta-BHC	2.300	ug/kg	D	U	2.100	ug/kg	C	U	2.100	ug/kg	C	UJ
gamma-BHC (Lindane)	2.300	ug/kg	D	U	2.100	ug/kg	C	U	2.100	ug/kg	C	UJ
gamma-Chlordane	2.300	ug/kg	D	U	2.100	ug/kg	C	U	2.100	ug/kg	C	UJ

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1997	1997	1997			
SAMPLE NUMBER	116192	116243	116252			
SAMPLING DATE	10-11-5 05/05/93	28-5-30 05/06/93	34-35.5 05/07/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Inorganics</u>						
Aluminum	8360.000	mg/kg C -	6160.000	mg/kg C -	9620.000	mg/kg C -
Antimony	1.000	mg/kg C UJ	0.240	mg/kg C UJ	0.410	mg/kg C UJ
Arsenic	65.700	mg/kg C -	4.200	mg/kg C -	5.600	mg/kg C -
Barium	1080.000	mg/kg C J	56.200	mg/kg C J	64.000	mg/kg C J
Beryllium	5.400	mg/kg C -	0.310	mg/kg C -	0.840	mg/kg C -
Cadmium	0.520	mg/kg C U	0.510	mg/kg C -	1.200	mg/kg C -
Calcium	5870.000	mg/kg C J	4700.000	mg/kg C J	95900.000	mg/kg C J
Chromium	10.400	mg/kg C -	8.000	mg/kg C -	11.400	mg/kg C -
Cobalt	10.300	mg/kg C -	9.300	mg/kg C -	6.400	mg/kg C -
Copper	38.600	mg/kg C J	11.300	mg/kg C J	14.700	mg/kg C J
Cyanide	0.350	mg/kg C -	0.120	mg/kg C U	0.250	mg/kg C J
Iron	8090.000	mg/kg C J	11900.000	mg/kg C J	17600.000	mg/kg C J
Lead	11.100	mg/kg C J	13.800	mg/kg C J	8.900	mg/kg C J
Magnesium	937.000	mg/kg C J	2820.000	mg/kg C J	26800.000	mg/kg C J
Manganese	57.300	mg/kg C J	538.000	mg/kg C J	994.000	mg/kg C J
Mercury	1.300	mg/kg C -	0.120	mg/kg C U	0.090	mg/kg C UJ
Molybdenum	3.500	mg/kg C U	1.400	mg/kg C U	1.400	mg/kg C U
Nickel	17.800	mg/kg C -	9.400	mg/kg C -	16.800	mg/kg C -
Potassium	1500.000	mg/kg C J	678.000	mg/kg C J	1340.000	mg/kg C J
Selenium	2.900	mg/kg C -	0.240	mg/kg C U	0.230	mg/kg C UJ
Silicon	568.000	mg/kg C -	982.000	mg/kg C -	1000.000	mg/kg C -
Silver	0.520	mg/kg C U	0.480	mg/kg C U	0.460	mg/kg C U
Sodium	496.000	mg/kg C -	91.300	mg/kg C -	233.000	mg/kg C -
Thallium	0.880	mg/kg C -	0.240	mg/kg C U	0.230	mg/kg C U
Vanadium	31.700	mg/kg C J	14.800	mg/kg C J	24.700	mg/kg C J
Zinc	11.900	mg/kg C UJ	30.400	mg/kg C J	45.400	mg/kg C J
<u>Volatile Organics</u>						
1,1,1-Trichloroethane	83.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
1,1,2,2-Tetrachloroethane	83.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
1,1,2-Trichloroethane	83.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
1,1-Dichloroethane	83.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
1,1-Dichloroethene	83.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
1,2-Dichloroethane	83.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
1,2-Dichloroethene	83.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
1,2-Dichloropropane	83.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
2-Butanone	83.000	ug/kg C U	12.000	ug/kg C U	3.000	ug/kg C J
2-Hexanone	83.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
4-Methyl-2-pentanone	83.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Acetone	83.000	ug/kg C UJ	11.000	ug/kg C J	16.000	ug/kg C -
Benzene	83.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
Volatile Organics												
Bromodichloromethane	83.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Bromoform	83.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Bromomethane	83.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Carbon Tetrachloride	83.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Carbon disulfide	83.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chlorobenzene	14.000	ug/kg	C	J	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloroethane	83.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloroform	83.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloromethane	83.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ	12.000	ug/kg	C	U
Dibromochloromethane	83.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Ethylbenzene	83.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Methylene chloride	83.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Sterene	83.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Tetrachloroethene	83.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Toluene	370.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Trichloroethene	83.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Vinyl Acetate	83.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Vinyl chloride	83.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Xylenes, Total	83.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
cis-1,3-Dichloropropene	83.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
trans-1,3-Dichloropropene	83.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ	12.000	ug/kg	C	U
Semivolatile Organics												
1,2,4-Trichlorobenzene	440.000	ug/kg	C	U	400.000	ug/kg	C	U	380.000	ug/kg	C	U
1,2-Dichlorobenzene	440.000	ug/kg	C	U	400.000	ug/kg	C	U	380.000	ug/kg	C	U
1,3-Dichlorobenzene	440.000	ug/kg	C	U	400.000	ug/kg	C	U	380.000	ug/kg	C	U
1,4-Dichlorobenzene	440.000	ug/kg	C	U	400.000	ug/kg	C	U	380.000	ug/kg	C	U
2,4,5-Trichlorophenol	1100.000	ug/kg	C	U	960.000	ug/kg	C	U	920.000	ug/kg	C	U
2,4,6-Trichlorophenol	440.000	ug/kg	C	U	400.000	ug/kg	C	U	380.000	ug/kg	C	U
2,4-Dichlorophenol	440.000	ug/kg	C	U	400.000	ug/kg	C	U	380.000	ug/kg	C	U
2,4-Dimethylphenol	440.000	ug/kg	C	U	400.000	ug/kg	C	U	380.000	ug/kg	C	U
2,4-Dinitrophenol	1100.000	ug/kg	C	UJ	960.000	ug/kg	C	UJ	920.000	ug/kg	C	U
2,4-Dinitrotoluene	440.000	ug/kg	C	U	400.000	ug/kg	C	U	380.000	ug/kg	C	U
2,6-Dinitrotoluene	440.000	ug/kg	C	U	400.000	ug/kg	C	U	380.000	ug/kg	C	U
2-Chloronaphthalene	440.000	ug/kg	C	U	400.000	ug/kg	C	U	380.000	ug/kg	C	U
2-Chlorophenol	440.000	ug/kg	C	U	400.000	ug/kg	C	U	380.000	ug/kg	C	U
2-Methylnaphthalene	440.000	ug/kg	C	U	400.000	ug/kg	C	U	380.000	ug/kg	C	U
2-Methylphenol	440.000	ug/kg	C	U	400.000	ug/kg	C	U	380.000	ug/kg	C	U
2-Nitroaniline	1100.000	ug/kg	C	U	960.000	ug/kg	C	U	920.000	ug/kg	C	U
2-Nitrophenol	440.000	ug/kg	C	U	400.000	ug/kg	C	U	380.000	ug/kg	C	U
3,3'-Dichlorobenzidine	440.000	ug/kg	C	UJ	400.000	ug/kg	C	UJ	380.000	ug/kg	C	U

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1997	1997	1997			
SAMPLE NUMBER	116192	116243	116252			
SAMPLING DATE	10-11.5 05/05/93	28.5-30 05/06/93	34-35.5 05/07/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
3-Nitroaniline	1100.000	ug/kg C UJ	960.000	ug/kg C UJ	920.000	ug/kg C U
4,6-Dinitro-2-methylphenol	1100.000	ug/kg C U	960.000	ug/kg C U	920.000	ug/kg C U
4-Bromophenyl phenyl ether	440.000	ug/kg C U	400.000	ug/kg C U	380.000	ug/kg C U
4-Chloro-3-methylphenol	440.000	ug/kg C UU	400.000	ug/kg C U	380.000	ug/kg C U
4-Chlorophenylphenyl ether	440.000	ug/kg C UU	400.000	ug/kg C U	380.000	ug/kg C U
4-Methylphenol	440.000	ug/kg C UU	400.000	ug/kg C U	380.000	ug/kg C U
4-Nitroaniline	1100.000	ug/kg C UJ	960.000	ug/kg C UJ	920.000	ug/kg C UJ
4-Nitrophenol	1100.000	ug/kg C UU	960.000	ug/kg C UU	920.000	ug/kg C UU
Acenaphthene	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Acenaphthylene	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Anthracene	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Benzo(a)anthracene	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Benzo(a)pyrene	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Benzo(b)fluoranthene	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Benzo(g,h,i)perylene	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Benzo(k)fluoranthene	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Butyl benzyl phthalate	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Carbazole	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Chrysene	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Di-n-butyl phthalate	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Di-n-octyl phthalate	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Dibenzo(a,h)anthracene	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Dibenzofuran	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Diethyl phthalate	52.000	ug/kg C UJ	400.000	ug/kg C UU	380.000	ug/kg C UU
Dimethyl phthalate	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Fluoranthene	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Fluorene	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Hexachlorobenzene	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Hexachlorobutadiene	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Hexachlorocyclopentadiene	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Hexachloroethane	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Indeno(1,2,3-cd)pyrene	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Isophorone	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
N-Nitroso-di-n-propylamine	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
N-Nitrosodiphenylamine	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Naphthalene	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Nitrobenzene	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Pentachlorophenol	1100.000	ug/kg C UU	960.000	ug/kg C UU	920.000	ug/kg C UU
Phenanthrene	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Phenol	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
Pyrene	440.000	ug/kg C UU	400.000	ug/kg C UU	380.000	ug/kg C UU
bis(2-Chloroethoxy)methane	440.000	ug/kg C U	400.000	ug/kg C U	380.000	ug/kg C U

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1997	1997	1997	
SAMPLE NUMBER	116192	116243	116252	
SAMPLING DATE	10-11-5 05/05/93	28-5-30 05/06/93	34-35.5 05/07/93	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	
<u>Semivolatile Organics</u>				
bis(2-Chloroethyl)ether	440.000	ug/kg C U	400.000	ug/kg C U
bis(2-Chloroisopropyl) ether	440.000	ug/kg C U	400.000	ug/kg C U
bis(2-Ethylhexyl) phthalate	440.000	ug/kg C U	400.000	ug/kg C U
p-Chloroaniline	440.000	ug/kg C U	400.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>				
4,4'-DDD	4.400	ug/kg C UJ	4.000	ug/kg C UJ
4,4'-DDE	4.400	ug/kg C UJ	4.000	ug/kg C UJ
4,4'-DDT	4.400	ug/kg C UJ	4.000	ug/kg C UJ
Aldrin	2.300	ug/kg C UJ	2.000	ug/kg C UJ
Aroclor-1016	44.000	ug/kg C UJ	40.000	ug/kg C UJ
Aroclor-1221	89.000	ug/kg C UJ	80.000	ug/kg C UJ
Aroclor-1232	44.000	ug/kg C UJ	40.000	ug/kg C UJ
Aroclor-1242	44.000	ug/kg C UJ	40.000	ug/kg C UJ
Aroclor-1248	44.000	ug/kg C UJ	40.000	ug/kg C UJ
Aroclor-1254	44.000	ug/kg C UJ	40.000	ug/kg C UJ
Aroclor-1260	44.000	ug/kg C UJ	40.000	ug/kg C UJ
Dieldrin	4.400	ug/kg C UJ	4.000	ug/kg C UJ
Endosulfan II	4.400	ug/kg C UJ	4.000	ug/kg C UJ
Endosulfan sulfate	4.400	ug/kg C UJ	4.000	ug/kg C UJ
Endosulfan-I	2.300	ug/kg C UJ	2.000	ug/kg C UJ
Endrin	4.400	ug/kg C UJ	4.000	ug/kg C UJ
Endrin aldehyde	4.400	ug/kg C UJ	4.000	ug/kg C UJ
Endrin ketone	4.400	ug/kg C UJ	4.000	ug/kg C UJ
Heptachlor	2.300	ug/kg C UJ	2.000	ug/kg C UJ
Heptachlor epoxide	2.300	ug/kg C UJ	2.000	ug/kg C UJ
Methoxychlor	23.000	ug/kg C UJ	20.000	ug/kg C UJ
Toxaphene	230.000	ug/kg C UJ	200.000	ug/kg C UJ
alpha-BHC	2.300	ug/kg C UJ	2.000	ug/kg C UJ
alpha-Chlordane	2.300	ug/kg C UJ	2.000	ug/kg C UJ
beta-BHC	2.300	ug/kg C UJ	2.000	ug/kg C UJ
delta-BHC	2.300	ug/kg C UJ	2.000	ug/kg C UJ
gamma-BHC (Lindane)	2.300	ug/kg C UJ	2.000	ug/kg C UJ
gamma-Chlordane	2.300	ug/kg C UJ	2.000	ug/kg C UJ

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1997	1998	1998			
SAMPLE NUMBER	116257	112045	112054			
SAMPLING DATE	38-39 05/07/93	2-3.5 04/28/93	8-9.5 04/28/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Inorganics</u>						
Aluminum	3530.000	mg/kg D -	6440.000	mg/kg C -	11400.000	mg/kg C -
Antimony	0.330	mg/kg D UJ	0.910	mg/kg C R	0.250	mg/kg C R
Arsenic	5.100	mg/kg D -	65.400	mg/kg C J	10.900	mg/kg C J
Barium	21.600	mg/kg D J	621.000	mg/kg C -	77.000	mg/kg C -
Beryllium	0.400	mg/kg D -	6.900	mg/kg C -	1.700	mg/kg C -
Cadmium	0.440	mg/kg D U	0.760	mg/kg C D	0.960	mg/kg C -
Calcium	99800.000	mg/kg D J	3170.000	mg/kg C -	2990.000	mg/kg C -
Chromium	8.200	mg/kg D -	12.500	mg/kg C -	16.600	mg/kg C -
Cobalt	3.300	mg/kg D -	10.000	mg/kg C -	12.100	mg/kg C -
Copper	11.300	mg/kg D J	35.800	mg/kg C -	23.000	mg/kg C -
Cyanide	0.440	mg/kg D R	0.550	mg/kg C -	0.130	mg/kg C U
Iron	10100.000	mg/kg D J	11900.000	mg/kg C -	29800.000	mg/kg C -
Lead	5.400	mg/kg D J	17.700	mg/kg C C	13.700	mg/kg C J
Magnesium	48100.000	mg/kg D J	626.000	mg/kg C C	2810.000	mg/kg C J
Manganese	374.000	mg/kg D J	79.400	mg/kg C C	351.000	mg/kg C -
Mercury	0.100	mg/kg D UJ	0.190	mg/kg C D	0.120	mg/kg C U
Molybdenum	2.300	mg/kg D U	5.700	mg/kg C -	2.800	mg/kg C -
Nickel	10.600	mg/kg D -	16.900	mg/kg C -	23.500	mg/kg C -
Potassium	509.000	mg/kg D J	694.000	mg/kg C C	906.000	mg/kg C J
Selenium	0.220	mg/kg D UJ	5.400	mg/kg C C	0.250	mg/kg C UJ
Silicon	637.000	mg/kg D J	892.000	mg/kg C -	904.000	mg/kg C -
Silver	0.440	mg/kg D U	0.760	mg/kg C -	0.500	mg/kg C -
Sodium	175.000	mg/kg D U	222.000	mg/kg C C	76.300	mg/kg C J
Thallium	0.220	mg/kg D U	3.600	mg/kg C C	0.250	mg/kg C -
Vanadium	14.000	mg/kg D J	49.100	mg/kg C C	28.800	mg/kg C J
Zinc	28.100	mg/kg D J	19.600	mg/kg C C	59.000	mg/kg C -
<u>Volatile Organics</u>						
1,1,1-Trichloroethane	11.000	ug/kg D U	16.000	ug/kg C J	3.000	ug/kg C J
1,1,2,2-Tetrachloroethane	11.000	ug/kg D UU	77.000	ug/kg C UJ	12.000	ug/kg C U
1,1,2-Trichloroethane	11.000	ug/kg D UU	77.000	ug/kg C UJ	12.000	ug/kg C U
1,1-Dichloroethane	11.000	ug/kg D UU	77.000	ug/kg C UJ	12.000	ug/kg C U
1,1-Dichloroethene	11.000	ug/kg D U	77.000	ug/kg C UJ	12.000	ug/kg C U
1,2-Dichloroethane	11.000	ug/kg D UU	77.000	ug/kg C UJ	12.000	ug/kg C U
1,2-Dichloroethene	11.000	ug/kg D UU	77.000	ug/kg C UJ	12.000	ug/kg C U
1,2-Dichloropropane	11.000	ug/kg D U	77.000	ug/kg C UJ	12.000	ug/kg C U
2-Butanone	11.000	ug/kg D UU	77.000	ug/kg C UJ	12.000	ug/kg C U
2-Hexanone	11.000	ug/kg D UU	77.000	ug/kg C UJ	12.000	ug/kg C U
4-Methyl-2-pentanone	11.000	ug/kg D UU	77.000	ug/kg C UJ	12.000	ug/kg C U
Acetone	11.000	ug/kg D UU	77.000	ug/kg C UJ	12.000	ug/kg C U
Benzene	11.000	ug/kg D U	77.000	ug/kg C UJ	12.000	ug/kg C U

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1997	RESULTS	UNITS	L	VQ	1998	RESULTS	UNITS	L	VQ	1998	RESULTS	UNITS	L	VQ
SAMPLE NUMBER	116257					112045					112054				
	38-39					2-3.5					8-9.5				
SAMPLING DATE	05/07/93					04/28/93					04/28/93				
CHEMICAL PARAMETERS															
Volatile Organics															
Bromodichloromethane	11.000	ug/kg	D	U		77.000	ug/kg	C	UJ		12.000	ug/kg	C	U	
Bromoform	11.000	ug/kg	D	U		77.000	ug/kg	C	UJ		12.000	ug/kg	C	U	
Bromomethane	11.000	ug/kg	D	U		77.000	ug/kg	C	UJ		12.000	ug/kg	C	U	
Carbon Tetrachloride	11.000	ug/kg	D	U		77.000	ug/kg	C	UJ		12.000	ug/kg	C	U	
Carbon disulfide	11.000	ug/kg	D	U		77.000	ug/kg	C	UJ		12.000	ug/kg	C	U	
Chlorobenzene	11.000	ug/kg	D	U		77.000	ug/kg	C	UJ		12.000	ug/kg	C	U	
Chloroethane	11.000	ug/kg	D	U		77.000	ug/kg	C	UJ		12.000	ug/kg	C	U	
Chloroform	11.000	ug/kg	D	U		77.000	ug/kg	C	UJ		12.000	ug/kg	C	U	
Chloromethane	11.000	ug/kg	D	U		77.000	ug/kg	C	UJ		12.000	ug/kg	C	U	
Dibromochloromethane	11.000	ug/kg	D	U		77.000	ug/kg	C	UJ		12.000	ug/kg	C	U	
Ethylbenzene	11.000	ug/kg	D	U		77.000	ug/kg	C	UJ		12.000	ug/kg	C	U	
Methylene chloride	11.000	ug/kg	D	U		77.000	ug/kg	C	UJ		12.000	ug/kg	C	U	
Styrene	11.000	ug/kg	D	U		77.000	ug/kg	C	UJ		12.000	ug/kg	C	U	
Tetrachloroethene	11.000	ug/kg	D	U		77.000	ug/kg	C	UJ		12.000	ug/kg	C	U	
Toluene	16.000	ug/kg	D	-		150.000	ug/kg	C	J		12.000	ug/kg	C	U	
Trichloroethene	11.000	ug/kg	D	U		77.000	ug/kg	C	UJ		12.000	ug/kg	C	U	
Vinyl Acetate	11.000	ug/kg	D	U		NA					12.000	ug/kg	C	U	
Vinyl chloride	11.000	ug/kg	D	U		77.000	ug/kg	C	UJ		12.000	ug/kg	C	U	
Xylenes, Total	11.000	ug/kg	D	U		77.000	ug/kg	C	UJ		12.000	ug/kg	C	U	
cis-1,3-Dichloropropene	11.000	ug/kg	D	U		77.000	ug/kg	C	UJ		12.000	ug/kg	C	U	
trans-1,3-Dichloropropene	11.000	ug/kg	D	U		77.000	ug/kg	C	UJ		12.000	ug/kg	C	UJ	
Semivolatile Organics															
1,2,4-Trichlorobenzene	340.000	ug/kg	D	U		500.000	ug/kg	C	UJ		390.000	ug/kg	C	UJ	
1,2-Dichlorobenzene	340.000	ug/kg	D	U		500.000	ug/kg	C	UJ		390.000	ug/kg	C	UJ	
1,3-Dichlorobenzene	340.000	ug/kg	D	U		500.000	ug/kg	C	UJ		390.000	ug/kg	C	UJ	
1,4-Dichlorobenzene	340.000	ug/kg	D	U		500.000	ug/kg	C	UJ		390.000	ug/kg	C	UJ	
2,4,5-Trichlorophenol	840.000	ug/kg	D	U		1200.000	ug/kg	C	UJ		960.000	ug/kg	C	UJ	
2,4,6-Trichlorophenol	340.000	ug/kg	D	U		500.000	ug/kg	C	UJ		390.000	ug/kg	C	UJ	
2,4-Dichlorophenol	340.000	ug/kg	D	U		500.000	ug/kg	C	UJ		390.000	ug/kg	C	UJ	
2,4-Dimethylphenol	340.000	ug/kg	D	U		500.000	ug/kg	C	UJ		390.000	ug/kg	C	UJ	
2,4-Dinitrophenol	840.000	ug/kg	D	UJ		1200.000	ug/kg	C	UJ		960.000	ug/kg	C	UJ	
2,4-Dinitrotoluene	340.000	ug/kg	D	U		500.000	ug/kg	C	UJ		390.000	ug/kg	C	UJ	
2,6-Dinitrotoluene	340.000	ug/kg	D	U		500.000	ug/kg	C	UJ		390.000	ug/kg	C	UJ	
2-Chloronaphthalene	340.000	ug/kg	D	U		500.000	ug/kg	C	UJ		390.000	ug/kg	C	UJ	
2-Chlorophenol	340.000	ug/kg	D	U		500.000	ug/kg	C	UJ		390.000	ug/kg	C	UJ	
2-Methylnaphthalene	340.000	ug/kg	D	U		500.000	ug/kg	C	UJ		390.000	ug/kg	C	UJ	
2-Methylphenol	340.000	ug/kg	D	U		500.000	ug/kg	C	UJ		390.000	ug/kg	C	UJ	
2-Nitroaniline	840.000	ug/kg	D	U		1200.000	ug/kg	C	UJ		960.000	ug/kg	C	UJ	
2-Nitrophenol	340.000	ug/kg	D	U		500.000	ug/kg	C	UJ		390.000	ug/kg	C	UJ	
3,3'-Dichlorobenzidine	340.000	ug/kg	D	U		500.000	ug/kg	C	UJ		390.000	ug/kg	C	UJ	

TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1997	1998	1998			
SAMPLE NUMBER	116257	112045	112054			
SAMPLING DATE	38-39 05/07/93	2-3.5 04/28/93	8-9.5 04/28/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
3-Nitroaniline	840.000	ug/kg D U	1200.000	ug/kg C UJ	960.000	ug/kg C UJ
4,6-Dinitro-2-methylphenol	840.000	ug/kg D U	1200.000	ug/kg C UJ	960.000	ug/kg C UJ
4-Bromophenyl phenyl ether	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
4-Chloro-3-methylphenol	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
4-Chlorophenylphenyl ether	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
4-Methylphenol	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
4-Nitroaniline	840.000	ug/kg D UJ	1200.000	ug/kg C UJ	960.000	ug/kg C UJ
4-Nitrophenol	840.000	ug/kg D U	1200.000	ug/kg C UJ	960.000	ug/kg C UJ
Acenaphthene	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Acenaphthylene	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Anthracene	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Benzo(a)anthracene	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Benzo(a)pyrene	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Benzo(b)fluoranthene	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Benzo(g,h,i)perylene	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Benzo(k)fluoranthene	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Benzoic acid	NA		2400.000	ug/kg C UJ	1900.000	ug/kg C UJ
Benzyl alcohol	NA		500.000	ug/kg C UJ	390.000	ug/kg C UJ
Butyl benzyl phthalate	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Carbazole	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Chrysene	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Di-n-butyl phthalate	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Di-n-octyl phthalate	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Dibenzo(a,h)anthracene	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Dibenzofuran	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Diethyl phthalate	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Dimethyl phthalate	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Fluoranthene	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Fluorene	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Hexachlorobenzene	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Hexachlorobutadiene	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Hexachlorocyclopentadiene	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Hexachloroethane	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Indeno(1,2,3-cd)pyrene	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Isophorone	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
N-Nitroso-di-n-propylamine	340.000	ug/kg D UJ	500.000	ug/kg C UJ	390.000	ug/kg C UJ
N-Nitrosodiphenylamine	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Naphthalene	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Nitrobenzene	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Pentachlorophenol	840.000	ug/kg D U	1200.000	ug/kg C UJ	960.000	ug/kg C UJ
Phenanthrene	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ
Phenol	340.000	ug/kg D U	500.000	ug/kg C UJ	390.000	ug/kg C UJ

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1997				1998				1998			
SAMPLE NUMBER	116257				112045				112054			
SAMPLING DATE	38-39				2-3.5				8-9.5			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
Pyrene	340.000	ug/kg	D	U	500.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
bis(2-Chloroethoxy)methane	340.000	ug/kg	D	U	500.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
bis(2-Chloroethyl)ether	340.000	ug/kg	D	U	500.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
bis(2-Chloroisopropyl) ether	340.000	ug/kg	D	U	500.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
bis(2-Ethylhexyl) phthalate	340.000	ug/kg	D	U	150.000	ug/kg	C	J	87.000	ug/kg	C	J
p-Chloroaniline	340.000	ug/kg	D	U	500.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	3.500	ug/kg	D	U	5.100	ug/kg	C	U	3.900	ug/kg	C	U
4,4'-DDE	3.500	ug/kg	D	UJ	5.100	ug/kg	C	U	3.900	ug/kg	C	U
4,4'-DDT	3.500	ug/kg	D	U	5.100	ug/kg	C	U	3.900	ug/kg	C	U
Aldrin	1.800	ug/kg	G	U	2.600	ug/kg	C	U	2.000	ug/kg	C	U
Aroclor-1016	35.000	ug/kg	D	UJ	51.000	ug/kg	C	U	39.000	ug/kg	C	UJ
Aroclor-1221	70.000	ug/kg	D	UJ	100.000	ug/kg	C	U	80.000	ug/kg	C	UJ
Aroclor-1232	35.000	ug/kg	D	UJ	51.000	ug/kg	C	U	39.000	ug/kg	C	UJ
Aroclor-1242	35.000	ug/kg	D	UJ	51.000	ug/kg	C	U	39.000	ug/kg	C	UJ
Aroclor-1248	35.000	ug/kg	D	UJ	51.000	ug/kg	C	U	39.000	ug/kg	C	UJ
Aroclor-1254	35.000	ug/kg	D	UJ	51.000	ug/kg	C	U	39.000	ug/kg	C	UJ
Aroclor-1260	35.000	ug/kg	D	UJ	51.000	ug/kg	C	U	39.000	ug/kg	C	UJ
Dieldrin	3.500	ug/kg	D	U	5.100	ug/kg	C	U	3.900	ug/kg	C	U
Endosulfan II	3.500	ug/kg	D	U	5.100	ug/kg	C	U	3.900	ug/kg	C	U
Endosulfan sulfate	3.500	ug/kg	D	U	5.100	ug/kg	C	U	3.900	ug/kg	C	U
Endosulfan-I	1.800	ug/kg	D	U	2.600	ug/kg	C	U	2.000	ug/kg	C	U
Endrin	3.500	ug/kg	D	U	5.100	ug/kg	C	U	3.900	ug/kg	C	U
Endrin aldehyde	3.500	ug/kg	D	U	5.100	ug/kg	C	U	3.900	ug/kg	C	U
Endrin ketone	3.500	ug/kg	D	U	5.100	ug/kg	C	U	3.900	ug/kg	C	U
Heptachlor	1.800	ug/kg	D	U	2.600	ug/kg	C	U	2.000	ug/kg	C	U
Heptachlor epoxide	1.800	ug/kg	D	U	2.600	ug/kg	C	U	2.000	ug/kg	C	U
Methoxychlor	18.000	ug/kg	D	U	26.000	ug/kg	C	U	20.000	ug/kg	C	U
Toxaphene	180.000	ug/kg	D	UJ	260.000	ug/kg	C	U	200.000	ug/kg	C	UJ
alpha-BHC	1.800	ug/kg	D	U	2.600	ug/kg	C	U	2.000	ug/kg	C	U
alpha-Chlordane	1.800	ug/kg	D	U	2.600	ug/kg	C	U	2.000	ug/kg	C	U
beta-BHC	1.800	ug/kg	D	U	2.600	ug/kg	C	U	2.000	ug/kg	C	U
delta-BHC	1.800	ug/kg	D	UJ	2.600	ug/kg	C	U	2.000	ug/kg	C	U
gamma-BHC (Lindane)	1.800	ug/kg	D	U	2.600	ug/kg	C	U	2.000	ug/kg	C	U
gamma-Chlordane	1.800	ug/kg	D	U	2.600	ug/kg	C	U	2.000	ug/kg	C	U

TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1998	1998						
SAMPLE NUMBER	112057	112065						
SAMPLING DATE	10-11.5 04/28/93	17-18.5 04/28/93						
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
Inorganics								
Aluminum	3020.000	mg/kg	D	-	7340.000	mg/kg	C	-
Antimony	0.240	mg/kg	D	R	0.220	mg/kg	C	R
Arsenic	5.000	mg/kg	D	J	3.700	mg/kg	C	J
Barium	38.300	mg/kg	D	-	50.900	mg/kg	C	-
Beryllium	1.500	mg/kg	D	-	1.300	mg/kg	C	-
Cadmium	0.500	mg/kg	D	-	1.200	mg/kg	C	-
Calcium	219000.000	mg/kg	D	J	95400.000	mg/kg	C	-
Chromium	6.400	mg/kg	D	-	11.000	mg/kg	C	-
Cobalt	3.400	mg/kg	D	-	8.200	mg/kg	C	-
Copper	8.600	mg/kg	D	-	16.400	mg/kg	C	-
Cyanide	0.120	mg/kg	D	U	0.110	mg/kg	C	U
Iron	8750.000	mg/kg	D	-	17000.000	mg/kg	C	-
Lead	7.000	mg/kg	D	J	18.300	mg/kg	C	J
Magnesium	51400.000	mg/kg	D	-	27500.000	mg/kg	C	J
Manganese	379.000	mg/kg	D	-	436.000	mg/kg	C	-
Mercury	0.110	mg/kg	D	U	0.100	mg/kg	C	U
Molybdenum	1.600	mg/kg	D	-	1.400	mg/kg	C	-
Nickel	8.100	mg/kg	D	-	18.900	mg/kg	C	-
Potassium	678.000	mg/kg	D	J	1440.000	mg/kg	C	J
Selenium	0.240	mg/kg	D	UJ	0.220	mg/kg	C	UJ
Silicon	526.000	mg/kg	D	-	577.000	mg/kg	C	-
Silver	0.490	mg/kg	D	U	0.430	mg/kg	C	U
Sodium	203.000	mg/kg	D	J	190.000	mg/kg	C	J
Thallium	0.240	mg/kg	D	U	0.220	mg/kg	C	U
Vanadium	15.600	mg/kg	D	J	17.700	mg/kg	C	J
Zinc	26.200	mg/kg	D	-	39.400	mg/kg	C	-
Volatile Organics								
1,1,1-Trichloroethane	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
1,1,2,2-Tetrachloroethane	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
1,1,2-Trichloroethane	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
1,1-Dichloroethane	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
1,1-Dichloroethene	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
1,2-Dichloroethane	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
1,2-Dichloroethene	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
1,2-Dichloropropane	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
2-Butanone	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
2-Hexanone	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
4-Methyl-2-pentanone	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
Acetone	15.000	ug/kg	D	UJ	11.000	ug/kg	C	U
Benzene	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1998			1998				
SAMPLE NUMBER	112057			112065				
SAMPLING DATE	10-11.5			17-18.5				
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS		
<u>Volatile Organics</u>								
Bromodichloromethane	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
Bromoform	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
Bromomethane	13.000	ug/kg	D	U	11.000	ug/kg	C	U
Carbon Tetrachloride	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
Carbon disulfide	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
Chlorobenzene	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
Chloroethane	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
Chloroform	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
Chloromethane	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
Dibromochloromethane	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
Ethylbenzene	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
Methylene chloride	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
Styrene	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
Tetrachloroethene	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
Toluene	13.000	ug/kg	D	UJ	59.000	ug/kg	C	-
Trichloroethene	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
Vinyl Acetate	NA				11.000	ug/kg	C	U
Vinyl chloride	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
Xylenes, Total	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
cis-1,3-Dichloropropene	13.000	ug/kg	D	UJ	11.000	ug/kg	C	U
trans-1,3-Dichloropropene	13.000	ug/kg	D	UJ	11.000	ug/kg	C	UJ
<u>Semivolatile Organics</u>								
1,2,4-Trichlorobenzene	420.000	ug/kg	D	UJ	360.000	ug/kg	C	UJ
1,2-Dichlorobenzene	420.000	ug/kg	D	UJ	360.000	ug/kg	C	UJ
1,3-Dichlorobenzene	420.000	ug/kg	D	UJ	360.000	ug/kg	C	UJ
1,4-Dichlorobenzene	420.000	ug/kg	D	UJ	360.000	ug/kg	C	UJ
2,4,5-Trichlorophenol	1000.000	ug/kg	D	UJ	870.000	ug/kg	C	UJ
2,4,6-Trichlorophenol	420.000	ug/kg	D	UJ	360.000	ug/kg	C	UJ
2,4-Dichlorophenol	420.000	ug/kg	D	UJ	360.000	ug/kg	C	UJ
2,4-Dimethylphenol	420.000	ug/kg	D	UJ	360.000	ug/kg	C	UJ
2,4-Dinitrophenol	1000.000	ug/kg	D	UJ	870.000	ug/kg	C	UJ
2,4-Dinitrotoluene	420.000	ug/kg	D	UJ	360.000	ug/kg	C	UJ
2,6-Dinitrotoluene	420.000	ug/kg	D	UJ	360.000	ug/kg	C	UJ
2-Chloronaphthalene	420.000	ug/kg	D	UJ	360.000	ug/kg	C	UJ
2-Chlorophenol	420.000	ug/kg	D	UJ	360.000	ug/kg	C	UJ
2-Methylnaphthalene	420.000	ug/kg	D	UJ	360.000	ug/kg	C	UJ
2-Methylphenol	420.000	ug/kg	D	UJ	360.000	ug/kg	C	UJ
2-Nitroaniline	1000.000	ug/kg	D	UJ	870.000	ug/kg	C	UJ
2-Nitrophenol	420.000	ug/kg	D	UJ	360.000	ug/kg	C	UJ
3,3'-Dichlorobenzidine	420.000	ug/kg	D	UJ	360.000	ug/kg	C	UJ

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1998	1998
SAMPLE NUMBER	112057	112065
SAMPLING DATE	10-11-5 04/28/93	17-18-5 04/28/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ
	RESULTS	UNITS L VQ
<u>Semivolatile Organics</u>		
3-Nitroaniline	1000.000	ug/kg D UJ
4,6-Dinitro-2-methylphenol	1000.000	ug/kg D UJ
4-Bromophenyl phenyl ether	420.000	ug/kg D UJ
4-Chloro-3-methylphenol	420.000	ug/kg D UJ
4-Chlorophenylphenyl ether	420.000	ug/kg D UJ
4-Methylphenol	420.000	ug/kg D UJ
4-Nitroaniline	1000.000	ug/kg D UJ
4-Nitrophenol	1000.000	ug/kg D UJ
Acenaphthene	420.000	ug/kg D UJ
Acenaphthylene	420.000	ug/kg D UJ
Anthracene	420.000	ug/kg D UJ
Benzo(a)anthracene	420.000	ug/kg D UJ
Benzo(a)pyrene	420.000	ug/kg D UJ
Benzo(b)fluoranthene	420.000	ug/kg D UJ
Benzo(g,h,i)perylene	420.000	ug/kg D UJ
Benzo(k)fluoranthene	420.000	ug/kg D UJ
Benzoic acid	2100.000	ug/kg D UJ
Benzyl alcohol	420.000	ug/kg D UJ
Butyl benzyl phthalate	420.000	ug/kg D UJ
Carbazole	420.000	ug/kg D UJ
Chrysene	420.000	ug/kg D UJ
Di-n-butyl phthalate	420.000	ug/kg D UJ
Di-n-octyl phthalate	420.000	ug/kg D UJ
Dibenzo(a,h)anthracene	420.000	ug/kg D UJ
Dibenzofuran	420.000	ug/kg D UJ
Diethyl phthalate	420.000	ug/kg D UJ
Dimethyl phthalate	420.000	ug/kg D UJ
Fluoranthene	420.000	ug/kg D UJ
Fluorene	420.000	ug/kg D UJ
Hexachlorobenzene	420.000	ug/kg D UJ
Hexachlorobutadiene	420.000	ug/kg D UJ
Hexachlorocyclopentadiene	420.000	ug/kg D UJ
Hexachloroethane	420.000	ug/kg D UJ
Indeno(1,2,3-cd)pyrene	420.000	ug/kg D UJ
Isophorone	420.000	ug/kg D UJ
N-Nitroso-di-n-propylamine	420.000	ug/kg D UJ
N-Nitrosodiphenylamine	420.000	ug/kg D UJ
Naphthalene	420.000	ug/kg D UJ
Nitrobenzene	420.000	ug/kg D UJ
Pentachlorophenol	1000.000	ug/kg D UJ
Phenanthrene	420.000	ug/kg D UJ
Phenol	420.000	ug/kg D UJ

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TABLE E-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1998				1998				
SAMPLE NUMBER	112057	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
SAMPLING DATE	10-11.5 04/28/93					17-18.5 04/28/93			
CHEMICAL PARAMETERS									
<u>Semivolatile Organics</u>									
Pyrene	420.000	ug/kg	D	UJ		360.000	ug/kg	C	UJ
bis(2-Chloroethoxy)methane	420.000	ug/kg	D	UJ		360.000	ug/kg	C	UJ
bis(2-Chloroethyl)ether	420.000	ug/kg	D	UJ		360.000	ug/kg	C	UJ
bis(2-Chloroisopropyl) ether	420.000	ug/kg	D	UJ		360.000	ug/kg	C	UJ
bis(2-Ethylhexyl) phthalate	130.000	ug/kg	D	J		840.000	ug/kg	C	J
p-Chloroaniline	420.000	ug/kg	D	UJ		360.000	ug/kg	C	UJ
<u>Pesticide Organics/PCBs</u>									
4,4'-DDD	4.200	ug/kg	D	R		3.600	ug/kg	C	U
4,4'-DDE	4.200	ug/kg	D	R		3.600	ug/kg	C	U
4,4'-DDT	4.200	ug/kg	D	R		3.600	ug/kg	C	U
Aldrin	2.200	ug/kg	D	R		1.900	ug/kg	C	U
Aroclor-1016	42.000	ug/kg	D	U		36.000	ug/kg	C	UJ
Aroclor-1221	86.000	ug/kg	D	U		73.000	ug/kg	C	UJ
Aroclor-1232	42.000	ug/kg	D	U		36.000	ug/kg	C	UJ
Aroclor-1242	42.000	ug/kg	D	U		36.000	ug/kg	C	UJ
Aroclor-1248	42.000	ug/kg	D	U		36.000	ug/kg	C	UJ
Aroclor-1254	42.000	ug/kg	D	U		36.000	ug/kg	C	UJ
Aroclor-1260	42.000	ug/kg	D	U		36.000	ug/kg	C	UJ
Dieldrin	4.200	ug/kg	D	R		3.600	ug/kg	C	U
Endosulfan II	4.200	ug/kg	D	R		3.600	ug/kg	C	U
Endosulfan sulfate	4.200	ug/kg	D	R		3.600	ug/kg	C	U
Endosulfan-I	2.200	ug/kg	D	R		1.900	ug/kg	C	U
Endrin	4.200	ug/kg	D	R		3.600	ug/kg	C	U
Endrin aldehyde	4.200	ug/kg	D	R		3.600	ug/kg	C	U
Endrin ketone	4.200	ug/kg	D	R		3.600	ug/kg	C	U
Heptachlor	2.200	ug/kg	D	R		1.900	ug/kg	C	U
Heptachlor epoxide	2.200	ug/kg	D	R		1.900	ug/kg	C	U
Methoxychlor	22.000	ug/kg	D	R		19.000	ug/kg	C	U
Toxaphene	220.000	ug/kg	D	U		190.000	ug/kg	C	UJ
alpha-BHC	2.200	ug/kg	D	R		1.900	ug/kg	C	U
alpha-Chlordane	2.200	ug/kg	D	R		1.900	ug/kg	C	U
beta-BHC	2.200	ug/kg	D	R		1.900	ug/kg	C	U
delta-BHC	2.200	ug/kg	D	R		1.900	ug/kg	C	U
gamma-BHC (Lindane)	2.200	ug/kg	D	R		1.900	ug/kg	C	U
gamma-Chlordane	2.200	ug/kg	D	R		1.900	ug/kg	C	U

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TABLE E-6B
INACTIVE FLYASH PILE
TENTATIVELY IDENTIFIED COMPOUNDS
SUBSURFACE SOIL

Sample Number	Sample Location	Parameter	Result	Units
112045	1998	hexane (DOT)	19	ug/kg
112045	1998	cyclopentane, methyl-	10	ug/kg
112077	1996	hexane (DOT)	39	ug/kg
112084	1996	hexane (DOT)	18	ug/kg
112087	1996	limonene	1200	ug/kg
112087	1996	benzene, 1-methyl-(1-methyle	1300	ug/kg
112087	1996	3-carene	12000	ug/kg
112087	1996	bicyclo[3.1.1]heptane, 6,6-D	1600	ug/kg
113492	11006	tetradecanoic acid	130	ug/kg
113492	11006	decane, 3-cyclohexyl-, 3-cycl	17	ug/kg
113492	11006	dotriacontane	26	ug/kg
113492	11006	tetradecanoic acid	18	ug/kg
113492	11006	oxirane, tetradecyl-	15	ug/kg
113492	11006	tetratetracontane	90	ug/kg
113492	11006	cyclohexanol, 5-methyl-2-(1-	18	ug/kg
113492	11006	tetratetracontane	89	ug/kg
113492	11006	tritetracontane	25	ug/kg
113492	11006	octadecanoic acid	61	ug/kg
113492	11006	dotriacontane	37	ug/kg
113492	11006	tetradecanoic acid	340	ug/kg
113492	11006	cycloproanemethanol, alpha	21	ug/kg
113492	11006	tritetracontane	26	ug/kg
113492	11006	5-octen-4-one, 7-methyl-	39	ug/kg
113492	11006	heptacosane	74	ug/kg
113492	11006	2h-3,9a-methano-1-benzoxepin	23	ug/kg
113492	11006	tetratetracontane	70	ug/kg
113492	11006	dotriacontane	18	ug/kg
113492	11006	heptacosane	95	ug/kg
113492	11006	dotriacontane	34	ug/kg
116070	1996	bicyclo[3.1.1]heptane, 6,6-D	350	ug/kg
116070	1996	limonene	250	ug/kg
116070	1996	3-carene	5600	ug/kg
116080	1995	pentane, 2-methyl	37	ug/kg
116080	1995	hexane (DOT)	420	ug/kg
116080	1995	1-pentene, 2-methyl-	130	ug/kg
116080	1995	pentane, 3-methyl-	94	ug/kg
116090	1995	hexane (DOT)	66	ug/kg
116177	1977	heptadecane, 2,6-dimethyl-	250	ug/kg
116177	1977	pentadecane	120	ug/kg
116177	1977	tetracontane,3,5,24-trimeth	100	ug/kg
116177	1977	cyclopropane, 1,1,2,2-tetram	100	ug/kg
116177	1977	heptadecane, 2,6-dimethyl-	170	ug/kg
116177	1977	heptadecane, 2,6-dimethyl-	170	ug/kg
116177	1977	1-heptanol, 6-methyl-	85	ug/kg
116177	1977	pentadecane	190	ug/kg
116177	1977	hexane, 2-bromo	89	ug/kg
116192	1977	2-cyclohexen-1-one, 3,5-dime	160	ug/kg
116192	1977	hexanedioic acid	560	ug/kg
116243	1997	heptadecane, 2,6-dimethyl-	150	ug/kg
116243	1997	hexane, 2-bromo	200	ug/kg
116243	1997	1-heptanol, 2,4-dimethyl-,	100	ug/kg
116252	1997	octacosane	110	ug/kg
116252	1997	1-heptanol, 6-methyl-	81	ug/kg
116252	1997	cyclopropane, 1,1,2,2-tetram	100	ug/kg
116252	1997	pentadecane	150	ug/kg

TABLE E-6B
INACTIVE FLYASH PILE
TENTATIVELY IDENTIFIED COMPOUNDS
SUBSURFACE SOIL

Sample Number	Sample Location	Parameter	Result	Units
116252	1997	heptadecane, 2,6-dimethyl-	120	ug/kg
116252	1997	octacosane	92	ug/kg
116252	1997	pentadecane	92	ug/kg
116257	1997	ethanone, 1-(3-ethyloxiranyl	73	ug/kg
116264	1994	methane, chlorodifluoro-	1200	ug/kg
116283	1994	methane, chlorodifluoro-	230	ug/kg
116264	1994	methane, chlorodifluoro-	170	ug/kg
116301	1994	cyclopentane, methyl-	10	ug/kg
116301	1994	hexane (DOT)	10	ug/kg
116301	1994	cyclotetrasiloxane, octameth	30	ug/kg
116312	1994	methane, chlorodifluoro-	75	ug/kg
116264	1994	hexanoic acid, 2-ethyl-	110	ug/kg
116264	1994	dodecanoic acid	220	ug/kg
116264	1994	1,2-benzenedicarboxylic acid	1100	ug/kg
116264	1994	hexadecanoic acid	410	ug/kg
116264	1994	pentadecane	190	ug/kg
116264	1994	pentadecane	120	ug/kg
116283	1994	3-penten-2-one, 4-methyl-	240	ug/kg
116283	1994	hexanoic acid, 2-ethyl-	120	ug/kg
116283	1994	glycene, n-methyl-n-(1-oxido	160	ug/kg
116283	1994	1,2-benzenedicarboxylic acid	940	ug/kg
116283	1994	hexadecanoic acid	400	ug/kg
116283	1994	1-hexadecyne	480	ug/kg
116283	1994	pentadecane	230	ug/kg
116283	1994	pentadecane	310	ug/kg
116283	1994	pentadecane	180	ug/kg
116301	1994	ethanethioic acid, s-methyl	860	ug/kg
116301	1994	2-cyclohexen-1-one, 3,5-dime	290	ug/kg
116301	1994	glycene, n-methyl-n-(1-oxido	150	ug/kg
116301	1994	1,2-benzenedicarboxylic acid	500	ug/kg
116301	1994	hexadecanoic acid	970	ug/kg
116301	1994	(z)6-pentadecen-1-ol	320	ug/kg
116301	1994	pentadecane	210	ug/kg
116301	1994	pentadecane	300	ug/kg
116301	1994	pentadecane	360	ug/kg
116312	1994	glycene, n-methyl-n-(1-oxido	140	ug/kg
116312	1994	1,2-benzenedicarboxylic acid	140	ug/kg
116312	1994	hexadecanoic acid	290	ug/kg
116312	1994	pentadecane	130	ug/kg
116331	11055	cyclopropane, 1,1,2,2-tetram	500	ug/kg
116331	11055	hexanoic acid	130	ug/kg
116331	11055	heptadecane, 2,6-dimethyl-	98	ug/kg
116331	11055	1,2-benzenedicarboxylic acid	580	ug/kg
116331	11055	hexadecanoic acid	160	ug/kg
116331	11055	pentadecane	230	ug/kg
116331	11055	heptadecane, 2,6-dimethyl-	290	ug/kg
116331	11055	pentadecane	250	ug/kg
116331	11055	heptadecane, 2,6-dimethyl-	290	ug/kg
116331	11055	pentadecane	150	ug/kg
116332	11055	tetradecone	76	ug/kg
116332	11055	pentadecane	100	ug/kg
116332	11055	pentadecane	97	ug/kg
116332	11055	dodecane, 2,7,10-trimethyl-	100	ug/kg
116332	11055	pentadecane	110	ug/kg
116332	11055	pentadecane	76	ug/kg
116332	11055	1,2-benzenedicarboxylic acid	160	ug/kg
116332	11055	pentadecane	120	ug/kg

TABLE E-6B
INACTIVE FLYASH PILE
TENTATIVELY IDENTIFIED COMPOUNDS
SUBSURFACE SOIL

Sample Number	Sample Location	Parameter	Result	Units
116332	11055	pentadecane	120	ug/kg
116332	11055	pentadecane	120	ug/kg
116332	11055	pentadecane	100	ug/kg
116332	11055	pentadecane	160	ug/kg
116332	11055	heptadecane, 2,6-dimethyl-	150	ug/kg
116332	11055	pentadecane	120	ug/kg
116335	11056	cyclotetrasiloxane, octameth	510	ug/kg
116335	11056	propanoic acid, 2-methyl-,	170	ug/kg
116335	11056	cyclotrisiloxane, hexamethyl	530	ug/kg
116336	11056	cyclotetrasiloxane, octameth	27	ug/kg
116336	11056	propanoic acid, 2-methyl-,	120	ug/kg
116336	11056	octacosane	140	ug/kg
116336	11056	heptadecane	180	ug/kg
116336	11056	pentacosane	210	ug/kg
116336	11056	pentacosane	250	ug/kg
116337	11057	azulene	6	ug/kg
116337	11057	propanoic acid, 2-methyl-,	83	ug/kg
116337	11057	pentadecane	83	ug/kg
116337	11057	heptadecane, 2,6-dimethyl-	110	ug/kg
116337	11057	pentadecane	82	ug/kg
116337	11057	pentadecane	85	ug/kg
116337	11057	pentadecane	77	ug/kg
116337	11057	pentadecane	110	ug/kg
116337	11057	pentadecane	92	ug/kg
116338	11057	2-cyclohexen-1-one, 3,5-dime	200	ug/kg
116338	11057	heptadecane, 2,6-dimethyl-	97	ug/kg
116338	11057	pentadecane	75	ug/kg
116338	11057	dodecane, 2,6,10-trimethyl-	78	ug/kg
116338	11057	pentadecane	100	ug/kg
116338	11057	pentadecane	96	ug/kg
116338	11057	pentadecane	93	ug/kg
116338	11057	pentadecane	120	ug/kg
116338	11057	pentadecane	93	ug/kg
116338	11057	pentadecane	120	ug/kg
116340	11054	propanoic acid, 2-methyl-,	95	ug/kg
116340	11054	pentadecane	100	ug/kg
116340	11054	heptadecane, 2,6-dimethyl-	120	ug/kg
116340	11054	pentadecane	86	ug/kg
116340	11054	heptadecane, 2,6-dimethyl-	79	ug/kg
116340	11054	pentadecane	90	ug/kg
116340	11054	pentadecane	88	ug/kg
116340	11054	pentadecane	85	ug/kg
116340	11054	pentadecane	110	ug/kg
116340	11054	pentadecane	100	ug/kg
116340	11054	pentadecane	130	ug/kg
116341	11054	pentadecane	130	ug/kg
116341	11054	heptadecane, 2,6-dimethyl-	150	ug/kg
116341	11054	pentadecane	120	ug/kg
116341	11054	dodecane, 2,6,10-trimethyl-	93	ug/kg
116341	11054	pentadecane	110	ug/kg
116341	11054	pentadecane	120	ug/kg
116341	11054	pentadecane	110	ug/kg
116341	11054	pentadecane	150	ug/kg

TABLE E-6B
INACTIVE FLYASH PILE
TENTATIVELY IDENTIFIED COMPOUNDS
SUBSURFACE SOIL

Sample Number	Sample Location	Parameter	Result	Units
116341	11054	heptadecan, 2,6,10,14-tetra	150	ug/kg
116427	11052	1,2-benzenedicarboxylic acid	140	ug/kg
116427	11052	octadecane, 1-chloro-	99	ug/kg
116427	11052	dotriacontane	150	ug/kg
116427	11052	dotriacontane	130	ug/kg
116427	11052	tritetracontane	130	ug/kg
116427	11052	dotriacontane	130	ug/kg
116427	11052	dotriacontane	120	ug/kg
116392	11040	cyclopentane, methyl-	170	ug/kg
116392	11040	pentane, 2-methyl-	64	ug/kg
116392	11040	hexane (DOT)	120	ug/kg
116392	11040	pentane, 3-methyl-	130	ug/kg
116392	11040	cyclotetrasiloxane, octamethyl	110	ug/kg
116392	11040	cyclotrisiloxane, hexamethyl	320	ug/kg
116441	11051	1,4-cyclohexadiene, 1-methyl	25	ug/kg
116441	11051	hexadecane	280	ug/kg
116441	11051	octacosane	270	ug/kg
116441	11051	1,2-benzenedicarboxylic acid	360	ug/kg
116441	11051	tetratetracontane	270	ug/kg
116441	11051	octadecanoic acid	300	ug/kg
116441	11051	heptacosane	380	ug/kg
116441	11051	tetratetracontane	710	ug/kg
116441	11051	heptacosane	960	ug/kg
116441	11051	heptacosane	940	ug/kg
116441	11051	tetratetracontane	930	ug/kg
116441	11051	tritetracontane	1000	ug/kg
116441	11051	tritetracontane	400	ug/kg
116441	11051	dotriacontane	670	ug/kg
116441	11051	dotriacontane	450	ug/kg

TABLE E-7

TABLE E-7A

INACTIVE FLYASH PILE
RADIOLOGICAL DATA CIS SUBSURFACE SOIL RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Radionuclide ^a	Validation Qualifier ^b	Activity Concentration (pCi/g, dry)	Uncertainty (pCi/g, dry)
BOREHOLE 24-10			
Cesium-137		NOT ANALYZED	
Neptunium-237		NOT ANALYZED	
Lead-210		5.00	1.00
Plutonium-238		NOT ANALYZED	
Plutonium-239/240		NOT ANALYZED	
Radium-226		4.10	0.70
Radium-228		2.00	0.70
Ruthenium-106		NOT ANALYZED	
Strontrium-90		NOT ANALYZED	
Technetium-99		NOT ANALYZED	
Thorium-228		2.30	0.80
Thorium-230		11.00	2.00
Thorium-232		2.60	0.80
Uranium-234		48.00	1.00
Uranium-235		2.20	0.20
Uranium-238		50.00	1.00
BOREHOLE 24-11			
Cesium-137		NOT ANALYZED	
Neptunium-237		NOT ANALYZED	
Lead-210		3.00	1.00
Plutonium-238		NOT ANALYZED	
Plutonium-239/240		NOT ANALYZED	
Radium-226		1.50	0.50
Radium-228		1.70	0.70
Ruthenium-106		NOT ANALYZED	
Strontrium-90		NOT ANALYZED	
Technetium-99		NOT ANALYZED	
Thorium-228		0.20	0.10
Thorium-230		0.20	0.10
Thorium-232		0.10	0.10
Uranium-234		3.70	0.30
Uranium-235		0.20	0.10
Uranium-238		6.60	0.40

^aRA-226 and RA-228, when reported, were measured by gamma spectrometry and reported on a dry weight basis.^bQualifiers are from the laboratory. No validation qualifiers were available.

TABLE E-7B
INACTIVE FLYASH PILE
CIS SUBSURFACE SOIL RESULTS
NON-RADIOLOGICAL DATA
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Analyte	Sample No. PS-24-097 Boring 10		Sample No. PS-24-130 Boring 11	
	Result	Validation Qualifier	Result	Validation Qualifier
INORGANICS (mg/kg)				
Aluminum	6960	J	7560	
Antimony	0.3	UJ	0.4	UJ
Arsenic	31	J	11	J
Barium	205		271	
Beryllium	1.4		1.4	
Cadmium	3.8		2.4	
Calcium	54200		12100	J
Chromium	16		12	
Cobalt	11	J	9.2	B
Copper	23		22	
Cyanide	0.6	UJ	0.7	U
Iron	14800		7280	J
Lead	56		14	J
Magnesium	8520		3310	
Manganese	780	J	238	J
Mercury	0.3		0.2	J
Nickel	12		13	
Potassium	1080		676	
Selenium	0.4	U	2.4	J
Silver	1.6	UJ	1.8	UJ
Sodium	168		189	B
Thallium	0.3	J	0.3	J
Vanadium	26	J	29	
Zinc	46	J	36	
PCBs/PESTICIDES (µg/kg)				
2,6-Dinitrotoluene	-	-	850	U
4,4-ddd	-	U	21	U
4,4-dde	10	-	21	U
4,4-ddt	-	-	21	U
Aldrin	5.0	U	10	U

TABLE E-7B
(Continued)

Analyte	Sample No. PS-24-097 Boring 10		Sample No. PS-24-130 Boring 11	
	Result	Validation Qualifier	Result	Validation Qualifier
PCBs PESTICIDES (µg/kg) (Continued)				
Alpha-bhc	5.0	U	10	U
Aroclor 1016	50	U	100	U
Aroclor 1221	50	U	100	U
Aroclor 1232	50	U	100	U
Aroclor 1242	50	U	100	U
Aroclor 1248	50	U	100	U
Aroclor 1254	290		210	U
Aroclor 1260	100	U	210	U
Beta-bhc	5.0	U	10	U
Chlordane	50	U	100	U
Delta-bhc	5.0	U	10	U
Dieldrin	10	U	21	U
Endosulfan I	5.0	U	10	U
Endosulfan II	10	U	21	U
Endosulfan sulfate	10	U	21	U
Endrin	10	UJ	21	U
Endrin ketone	10	U	21	U
Heptachlor	5.0	U	10	U
Heptachlor epoxide	5.0	U	10	U
Methoxychlor	50	U	100	U
Toxaphene	100	U	210	U

NOTE: Volatile and Semivolatile organic compounds were not sampled for the Inactive Flyash Pile.

TABLE E-8

**INACTIVE FLYASH PILE
SUBSURFACE MEDIA ENVIRONMENTAL SURVEY
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT**

Analyte	FEO604WP	FEO605WP	FEO607WP	FEO608WP	FEO609WP
Asbestos	ND	ND	ND	ND	ND
RADIOMUCLIDES (pCi/g)					
Bismuth-214	1.4±0.1	1.9±0.2	2.4±0.2	2.1±0.1	1.6±0.1
Cesium-137	I	I	I	I	I
Radium-226	1.2±0.1G	1.7±0.1G	2.4±0.2G	1.8±0.1G	1.5±0.1G
Thorium-228	1.2±0.1G	2.2±0.2G	2.4±0.2G	2.2±0.1G	2.2±0.1G
Thorium-232	0.94±0.12G	2.2±0.3G	2.4±0.4G	2.1±0.1G	2.2±0.1G
Uranium-235	N	N	N	N	N
Uranium-238	I	N	N	N	I
Total Uranium (mg/kg)	17.0	12.0	9.4	8.4	10.0
TCLP METALS (mg/L)					
Silver	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic	<0.5	<0.5	<0.5	<0.5	<0.5
Barium	0.61	0.73	0.37	1.22	1.15
Cadmium	<0.02	<0.02	<0.02	<0.02	<0.02
Chromium	<0.03	<0.03	<0.03	<0.03	<0.03
Mercury	<0.001	<0.001	<0.001	<0.001	<0.001
Lead	<0.3	<0.3	<0.3	<0.3	<0.3
Selenium	<0.5	<0.5	<0.5	<0.5	<0.5
VOLATILE ORGANIC COMPOUNDS (µg/kg)					
1,1,1-Trichloroethane	<5	<5	<5	100	84
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	<5
1,1,2-Trichloroethane	<5	<5	<5	<5	<5
1,1-Dichloroethane	<5	<5	<5	<5	<5
1,2-Dichloroethane	<5	<5	<5	<5	<5
1,2-Dichloropropane	<5	<5	<5	<5	<5
2-Butanone	<10	<10	<10	<10	<10
2-Chloroethylvinyl Ether	<10	<10	<10	<10	<10
2-Hexanone	<10	<10	<10	<10	<10
4-Methyl-2-pentanone	<10	<10	<10	<10	<10
Acetone	24 B	<10	50 B	<10	<10
Benzene	<5	<5	<5	<5	<5
Bromodichloromethane	<5	<5	<5	<5	<5
Bromoform	<5	<5	<5	<5	<5

See notes at end of table

TABLE E-8
(Continued)

Analyte	FEO604WP	FEO605WP	FEO607WP	FEO608WP	FEO609WP
VOLATILE ORGANIC COMPOUNDS (µg/kg) (continued)					
Bromomethane	<10	<10	<10	<10	<10
Carbon disulfide	<5	<5	<5	<5	<5
Carbon tetrachloride	<5	<5	<5	<5	<5
Chlorobenzene	<5	<5	<5	<5	<5
Chloroethane	<10	<10	<10	<10	<10
Chloroform	<5	<5	<5	<5	<5
Chloromethane	<10	<10	<10	<10	<5
Cis-1,3-dichloropropene	<5	<5	<5	<5	<5
Dibromoethane	<5	<5	<5	<5	<5
Ethyl benzene	<5	<5	<5	<5	<5
Methylene chloride	110	52	21 B	28 B	27
Styrene	<5	<5	<5	<5	<5
Tetrachloroethene	<5	<5	<5	<5	<5
Toluene	<5	60	<5	<5	34
Total xylenes	<5	<5	<5	<5	<5
Trans-1,2-dichloroethene	<5	<5	<5	<5	<5
Trans-1,3-dichloropropene	<5	<5	<5	<5	<5
Trichloroethene	<5	<5	<5	<5	<5
Vinyl acetate	<10	<10	<10	<10	<10
Vinyl chloride	<10	<10	<10	<10	<10
PCBs (mg/kg)					
Aroclor-1242	NA	NA	NA	NA	NA
Aroclor-1248	NA	NA	NA	NA	NA
Aroclor-1254	NA	NA	NA	NA	NA
Aroclor-1260	NA	NA	NA	NA	NA

ND = None Detected

NA = Not Analyzed

N = Nuclide not identified by GAMANAL analysis as being present in the sample; no value reported

I = Nuclide identified by GAMANAL analysis of sample spectrum, but values did not exceed room background at the 95% confidence level; no value reported

B = Analyte was found in the blank as well as the sample

G = Gamma Spectroscopy Analysis

TABLE E-9
INACTIVE FLYASH PILE
RI/FS SEDIMENT RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	ASIT-008 009048			ASIT-009 009049			W-11 009037		
SAMPLING DATE	06/27/88			06/27/88			06/18/88		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
GROSS ALPHA	14.000	pCi/g	NV	6.000	pCi/g	NV	3.000	pCi/g	NV
GROSS BETA	24.000	pCi/g	NV	13.000	pCi/g	NV	10.000	pCi/g	NV
RA-226	0.885	pCi/g	J	0.687	pCi/g	J	0.500	pCi/g	J
RA-228	0.901	pCi/g	J	0.690	pCi/g	J	0.500	pCi/g	UJ
U-TOTAL	13.900	mg/kg	J	5.380	mg/kg	J	2.000	mg/kg	J

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TABLE E-9
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	W-11	W-11				
SAMPLE NUMBER	009103	009155				
SAMPLING DATE	08/27/88	04/17/89				
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
GROSS ALPHA	NA			34.000	pCi/g	NV
GROSS BETA	NA			7.000	pCi/g	NV
RA-226	0.400	pCi/g	J	0.600	pCi/g	J
RA-228	0.500	pCi/g	UJ	0.500	pCi/g	UJ
U-TOTAL	1.000	mg/kg	J	1.000	mg/kg	UJ

E-9-2

000127

TABLE E-9
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	W-11		
SAMPLE NUMBER	009145		
SAMPLING DATE	01/12/89		
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Inorganics</u>			
Aluminum	2080.000	mg/kg	C -
Antimony	0.100	mg/kg	C R
Arsenic	2.700	mg/kg	C J
Barium	21.000	mg/kg	C -
Beryllium	0.500	mg/kg	C -
Cadmium	4.500	mg/kg	C -
Calcium	110000.000	mg/kg	C -
Chromium	17.400	mg/kg	C -
Cobalt	4.700	mg/kg	C -
Copper	11.700	mg/kg	C -
Cyanide	2.400	mg/kg	C U
Iron	5940.000	mg/kg	C -
Lead	4.600	mg/kg	C R
Magnesium	26600.000	mg/kg	C -
Manganese	362.000	mg/kg	C -
Mercury	0.100	mg/kg	C U
Molybdenum	4.600	mg/kg	C U
Nickel	16.400	mg/kg	C -
Potassium	366.000	mg/kg	C -
Selenium	0.500	mg/kg	C U
Silver	0.100	mg/kg	C U
Sodium	188.000	mg/kg	C J
Thallium	0.200	mg/kg	C U
Vanadium	13.700	mg/kg	C -
Zinc	13.400	mg/kg	C J
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	6.000	ug/kg	C U
1,1,2,2-Tetrachloroethane	6.000	ug/kg	C U
1,1,2-Trichloroethane	6.000	ug/kg	C U
1,1-Dichloroethane	6.000	ug/kg	C U
1,1-Dichloroethene	6.000	ug/kg	C U
1,2-Dichloroethane	6.000	ug/kg	C U
1,2-Dichloroethene	6.000	ug/kg	C U
1,2-Dichloropropane	6.000	ug/kg	C U
2-Butanone	12.000	ug/kg	C U
2-Hexanone	12.000	ug/kg	C U
4-Methyl-2-pentanone	12.000	ug/kg	C U
Acetone	8.000	ug/kg	C U
Benzene	6.000	ug/kg	C U
Bromodichloromethane	6.000	ug/kg	C U

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TABLE E-9
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	W-11 009145			
SAMPLING DATE	01/12/89			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>				
Bromoform	6.000	ug/kg	C	U
Bromomethane	12.000	ug/kg	C	U
Carbon Tetrachloride	6.000	ug/kg	C	U
Carbon disulfide	6.000	ug/kg	C	U
Chlorobenzene	6.000	ug/kg	C	U
Chloroethane	12.000	ug/kg	C	U
Chloroform	6.000	ug/kg	C	U
Chloromethane	12.000	ug/kg	C	U
Dibromochloromethane	6.000	ug/kg	C	U
Ethylbenzene	6.000	ug/kg	C	U
Methylene chloride	15.000	ug/kg	C	U
Styrene	6.000	ug/kg	C	U
Tetrachloroethene	6.000	ug/kg	C	U
Toluene	6.000	ug/kg	C	U
Trichloroethene	6.000	ug/kg	C	U
Vinyl Acetate	12.000	ug/kg	C	U
Vinyl chloride	12.000	ug/kg	C	U
Xylenes, Total	6.000	ug/kg	C	U
cis-1,3-Dichloropropene	6.000	ug/kg	C	U
trans-1,3-Dichloropropene	6.000	ug/kg	C	U
<u>Semivolatile Organics</u>				
1,2,4-Trichlorobenzene	400.000	ug/kg	D	U
1,2-Dichlorobenzene	400.000	ug/kg	D	U
1,3-Dichlorobenzene	400.000	ug/kg	D	U
1,4-Dichlorobenzene	400.000	ug/kg	D	U
2,4,5-Trichlorophenol	2000.000	ug/kg	D	U
2,4,6-Trichlorophenol	400.000	ug/kg	D	U
2,4-Dichlorophenol	400.000	ug/kg	D	U
2,4-Dimethylphenol	400.000	ug/kg	D	U
2,4-Dinitrophenol	2000.000	ug/kg	D	U
2,4-Dinitrotoluene	400.000	ug/kg	D	U
2,6-Dinitrotoluene	400.000	ug/kg	D	U
2-Chloronaphthalene	400.000	ug/kg	D	U
2-Chlorophenol	400.000	ug/kg	D	U
2-Methylnaphthalene	400.000	ug/kg	D	U
2-Methylphenol	400.000	ug/kg	D	U
2-Nitroaniline	2000.000	ug/kg	D	U
2-Nitrophenol	400.000	ug/kg	D	U
3,3'-Dichlorobenzidine	800.000	ug/kg	D	U
3-Nitroaniline	2000.000	ug/kg	D	U

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0000169

TABLE E-9
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	W-11 009145	RESULTS	UNITS	L	VQ
Semivolatile Organics					
4,6-Dinitro-2-methylphenol	2000.000	ug/kg	D	UJ	
4-Bromophenyl phenyl ether	400.000	ug/kg	D	U	
4-Chloro-3-methylphenol	400.000	ug/kg	D	U	
4-Chlorophenylphenyl ether	400.000	ug/kg	D	U	
4-Methylphenol	400.000	ug/kg	D	U	
4-Nitroaniline	2000.000	ug/kg	D	U	
4-Nitrophenol	2000.000	ug/kg	D	U	
Acenaphthene	400.000	ug/kg	D	U	
Acenaphthylene	400.000	ug/kg	D	U	
Anthracene	400.000	ug/kg	D	U	
Benzo(a)anthracene	400.000	ug/kg	D	U	
Benzo(a)pyrene	400.000	ug/kg	D	U	
Benzo(b)fluoranthene	400.000	ug/kg	D	U	
Benzo(g,h,i)perylene	400.000	ug/kg	D	U	
Benzo(k)fluoranthene	400.000	ug/kg	D	U	
Benzoic acid	2000.000	ug/kg	D	U	
Benzyl alcohol	400.000	ug/kg	D	U	
Butyl benzyl phthalate	400.000	ug/kg	D	U	
Chrysene	400.000	ug/kg	D	U	
Di-n-butyl phthalate	55.000	ug/kg	D	U	
Di-n-octyl phthalate	400.000	ug/kg	D	U	
Dibenz(a,h)anthracene	400.000	ug/kg	D	U	
Dibenzofuran	400.000	ug/kg	D	U	
Diethyl phthalate	400.000	ug/kg	D	U	
Dimethyl phthalate	400.000	ug/kg	D	U	
Fluoranthene	400.000	ug/kg	D	U	
Fluorene	400.000	ug/kg	D	U	
Hexachlorobenzene	400.000	ug/kg	D	U	
Hexachlorobutadiene	400.000	ug/kg	D	U	
Hexachlorocyclopentadiene	400.000	ug/kg	D	U	
Hexachloroethane	400.000	ug/kg	D	U	
Indeno(1,2,3-cd)pyrene	400.000	ug/kg	D	U	
Isophorone	400.000	ug/kg	D	U	
N-Nitroso-di-n-propylamine	400.000	ug/kg	D	U	
N-Nitrosodiphenylamine	400.000	ug/kg	D	U	
Naphthalene	400.000	ug/kg	D	U	
Nitrobenzene	400.000	ug/kg	D	U	
Pentachlorophenol	2000.000	ug/kg	D	U	
Phenanthrene	400.000	ug/kg	D	U	
Phenol	400.000	ug/kg	D	U	
Pyrene	400.000	ug/kg	D	U	
bis(2-Chloroethoxy)methane	400.000	ug/kg	D	U	

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000130

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TABLE E-9
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	W-11			
SAMPLE NUMBER	009145			
SAMPLING DATE	01/12/89			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>				
bis(2-Chloroethyl)ether	400.000	ug/kg	D	U
bis(2-Chloroisopropyl) ether	400.000	ug/kg	D	U
bis(2-Ethylhexyl) phthalate	500.000	ug/kg	D	U
p-Chloroaniline	400.000	ug/kg	D	UU
<u>Pesticide Organics/PCBs</u>				
4,4'-DDD	20.000	ug/kg	C	U
4,4'-DDE	20.000	ug/kg	C	U
4,4'-DDT	20.000	ug/kg	C	U
Aldrin	9.900	ug/kg	C	U
Aroclor-1016	99.000	ug/kg	C	U
Aroclor-1221	99.000	ug/kg	C	U
Aroclor-1232	99.000	ug/kg	C	U
Aroclor-1242	99.000	ug/kg	C	U
Aroclor-1248	99.000	ug/kg	C	U
Aroclor-1254	200.000	ug/kg	C	U
Aroclor-1260	200.000	ug/kg	C	U
Dieldrin	20.000	ug/kg	C	U
Endosulfan II	20.000	ug/kg	C	U
Endosulfan sulfate	20.000	ug/kg	C	U
Endosulfan-I	9.900	ug/kg	C	U
Endrin	20.000	ug/kg	C	U
Endrin ketone	20.000	ug/kg	C	U
Heptachlor	9.900	ug/kg	C	U
Heptachlor epoxide	9.900	ug/kg	C	U
Methoxychlor	99.000	ug/kg	C	U
Toxaphene	200.000	ug/kg	C	U
alpha-BHC	9.900	ug/kg	C	U
alpha-Chlordane	99.000	ug/kg	C	U
beta-BHC	170.000	ug/kg	C	U
delta-BHC	9.900	ug/kg	C	U
gamma-BHC (Lindane)	9.900	ug/kg	C	U
gamma-Chlordane	99.000	ug/kg	C	U

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009145

TABLE E-9
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	IFP-SD-02			IFP-SD-02			IFP-SD-03		
SAMPLE NUMBER	111812			112021			116219		
SAMPLING DATE	0 - 0.5			0 - 0.5			05/01/93		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.100	pCi/g	UJ	0.078	pCi/g	UJ	0.076	pCi/g	UJ
GROSS ALPHA	15.600	pCi/g	-	15.200	pCi/g	J	16.640	pCi/g	-
GROSS BETA	17.600	pCi/g	-	16.300	pCi/g	J	21.440	pCi/g	-
NP-237	0.050	pCi/g	U	0.019	pCi/g	N	0.171	pCi/g	N
PU-238	0.130	pCi/g	U	0.019	pCi/g	J	0.043	pCi/g	J
PU-239/240	0.030	pCi/g	J	0.027	pCi/g	UJ	0.050	pCi/g	UJ
RA-226	0.750	pCi/g	-	0.650	pCi/g	J	0.996	pCi/g	-
RA-228	0.510	pCi/g	-	0.670	pCi/g	-	0.510	pCi/g	-
RU-106	0.700	pCi/g	UJ	0.670	pCi/g	UJ	0.590	pCi/g	UJ
SR-90	0.480	pCi/g	J	0.430	pCi/g	UJ	0.430	pCi/g	UJ
TC-99	0.420	pCi/g	UJ	0.382	pCi/g	UJ	0.360	pCi/g	UJ
TH-228	0.490	pCi/g	J	0.420	pCi/g	J	0.517	pCi/g	J
TH-230	1.280	pCi/g	J	0.750	pCi/g	-	0.879	pCi/g	J
TH-232	0.550	pCi/g	J	0.390	pCi/g	J	0.650	pCi/g	J
TH-TOTAL	5.040	ug/g	-	3.570	ug/g	-	5.920	ug/g	J
U-234	1.500	pCi/g	-	0.770	pCi/g	J	0.640	pCi/g	-
U-235/236	0.120	pCi/g	J	0.054	pCi/g	J	0.029	pCi/g	J
U-238	1.680	pCi/g	-	0.720	pCi/g	J	0.900	pCi/g	-
U-TOTAL	12.000	mg/kg	J	12.300	mg/kg	J	4.090	mg/kg	-

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TABLE E-9
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	IFP-SD-04		
SAMPLE NUMBER	112017		
	0 - 0.5		
SAMPLING DATE	04/29/93		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.083	pCi/g	UJ
GROSS ALPHA	14.000	pCi/g	J
GROSS BETA	16.800	pCi/g	J
NP-237	0.110	pCi/g	N
PU-238	0.050	pCi/g	J
PU-239/240	0.057	pCi/g	J
RA-226	0.700	pCi/g	J
RA-228	0.590	pCi/g	-
RU-106	0.670	pCi/g	UJ
SR-90	0.385	pCi/g	UJ
TC-99	0.380	pCi/g	UJ
TH-228	0.410	pCi/g	J
TH-230	0.860	pCi/g	-
TH-232	0.580	pCi/g	J
TH-TOTAL	5.280	ug/g	-
U-234	0.800	pCi/g	J
U-235/236	0.027	pCi/g	J
U-238	0.740	pCi/g	J
U-TOTAL	9.900	mg/kg	J

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TABLE E-9
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SD-02			IFP-SD-03			IFP-SD-03		
SAMPLE NUMBER	111812	RESULTS	UNITS L VQ	116219	RESULTS	UNITS L VQ	111813	RESULTS	UNITS L VQ
SAMPLING DATE	0-0.5 04/17/93			0-0.5 05/01/93			0-0.5 04/17/93		
CHEMICAL PARAMETERS									
Inorganics									
Aluminum	4020.000	mg/kg C	-	4090.000	mg/kg C	-	2220.000	mg/kg C	-
Antimony	1.200	mg/kg C	UJ	0.260	mg/kg C	R	1.300	mg/kg C	UJ
Arsenic	5.400	mg/kg C	-	3.400	mg/kg C	J	7.300	mg/kg C	-
Barium	27.300	mg/kg C	-	40.100	mg/kg C	-	50.200	mg/kg C	-
Beryllium	0.470	mg/kg C	U	1.200	mg/kg C	-	0.520	mg/kg C	U
Cadmium	1.200	mg/kg C	U	0.730	mg/kg C	-	1.300	mg/kg C	U
Calcium	111000.000	mg/kg C	-	93700.000	mg/kg C	-	191000.000	mg/kg C	-
Chromium	6.500	mg/kg C	-	6.600	mg/kg C	-	4.600	mg/kg C	-
Cobalt	4.800	mg/kg C	-	5.400	mg/kg C	-	3.700	mg/kg C	-
Copper	9.500	mg/kg C	-	9.000	mg/kg C	U	5.000	mg/kg C	-
Cyanide	0.120	mg/kg C	U	0.130	mg/kg C	U	0.130	mg/kg C	U
Iron	10300.000	mg/kg C	-	8960.000	mg/kg C	-	9670.000	mg/kg C	-
Lead	6.700	mg/kg C	-	7.100	mg/kg C	J	9.200	mg/kg C	-
Magnesium	29600.000	mg/kg C	-	21300.000	mg/kg C	J	29800.000	mg/kg C	-
Manganese	386.000	mg/kg C	-	514.000	mg/kg C	-	781.000	mg/kg C	-
Mercury	0.090	mg/kg C	U	0.130	mg/kg C	U	0.090	mg/kg C	U
Molybdenum	4.700	mg/kg C	U	0.780	mg/kg C	U	5.200	mg/kg C	U
Nickel	11.700	mg/kg C	-	8.500	mg/kg C	-	5.200	mg/kg C	U
Potassium	650.000	mg/kg C	-	622.000	mg/kg C	J	395.000	mg/kg C	-
Selenium	0.470	mg/kg C	U	0.260	mg/kg C	UJ	0.470	mg/kg C	U
Silicon	767.000	mg/kg C	-	824.000	mg/kg C	-	867.000	mg/kg C	-
Silver	2.400	mg/kg C	U	0.520	mg/kg C	U	2.600	mg/kg C	U
Sodium	150.000	mg/kg C	-	172.000	mg/kg C	J	157.000	mg/kg C	-
Thallium	0.520	mg/kg C	J	0.260	mg/kg C	U	0.470	mg/kg C	U
Vanadium	13.200	mg/kg C	-	14.100	mg/kg C	J	10.900	mg/kg C	-
Zinc	41.700	mg/kg C	-	28.800	mg/kg C	-	23.200	mg/kg C	-
Volatile Organics									
1,1,1-Trichloroethane	12.000	ug/kg C	U	13.000	ug/kg C	U	13.000	ug/kg C	U
1,1,2,2-Tetrachloroethane	12.000	ug/kg C	U	13.000	ug/kg C	U	13.000	ug/kg C	U
1,1,2-Trichloroethane	12.000	ug/kg C	U	13.000	ug/kg C	U	13.000	ug/kg C	U
1,1-Dichloroethane	12.000	ug/kg C	U	13.000	ug/kg C	U	13.000	ug/kg C	U
1,1-Dichloroethene	12.000	ug/kg C	U	13.000	ug/kg C	U	13.000	ug/kg C	U
1,2-Dichloroethane	12.000	ug/kg C	U	13.000	ug/kg C	U	13.000	ug/kg C	U
1,2-Dichloroethene	12.000	ug/kg C	U	13.000	ug/kg C	U	13.000	ug/kg C	U
1,2-Dichloropropane	12.000	ug/kg C	U	13.000	ug/kg C	U	13.000	ug/kg C	U
2-Butanone	12.000	ug/kg C	U	13.000	ug/kg C	U	13.000	ug/kg C	U
2-Hexanone	12.000	ug/kg C	UJ	13.000	ug/kg C	U	13.000	ug/kg C	UJ
4-Methyl-2-pentanone	12.000	ug/kg C	U	13.000	ug/kg C	U	13.000	ug/kg C	U
Acetone	12.000	ug/kg C	UJ	14.000	ug/kg C	U	13.000	ug/kg C	UJ
Benzene	12.000	ug/kg C	U	13.000	ug/kg C	-	13.000	ug/kg C	-

TABLE E-9
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SD-02	IFP-SD-03	IFP-SD-03			
SAMPLE NUMBER	111812	116219	111813			
SAMPLING DATE	0-0.5 04/17/93	05/01/93	0-0.5 04/17/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg C U
Bromoform	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg C U
Bromomethane	12.000	ug/kg C UJ	13.000	ug/kg C UJ	13.000	ug/kg C UJ
Carbon Tetrachloride	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg C U
Carbon disulfide	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg C U
Chlorobenzene	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg C U
Chloroethane	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg C U
Chloroform	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg C U
Chloromethane	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg C U
Dibromochloromethane	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg C U
Ethylbenzene	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg C U
Methylene chloride	15.000	ug/kg C U	13.000	ug/kg C U	19.000	ug/kg C U
Styrene	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg C U
Tetrachloroethene	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg C U
Toluene	12.000	ug/kg C U	35.000	ug/kg C U	13.000	ug/kg C U
Trichloroethene	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg C U
Vinyl Acetate	12.000	ug/kg C UJ	13.000	ug/kg C UJ	13.000	ug/kg C UJ
Vinyl chloride	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg C U
Xylenes, Total	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg C U
cis-1,3-Dichloropropene	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg C U
trans-1,3-Dichloropropene	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	400.000	ug/kg C U	410.000	ug/kg C U	440.000	ug/kg C U
1,2-Dichlorobenzene	400.000	ug/kg C U	410.000	ug/kg C U	440.000	ug/kg C U
1,3-Dichlorobenzene	400.000	ug/kg C U	410.000	ug/kg C U	440.000	ug/kg C U
1,4-Dichlorobenzene	400.000	ug/kg C U	410.000	ug/kg C U	440.000	ug/kg C U
2,4,5-Trichlorophenol	1900.000	ug/kg C U	1000.000	ug/kg C U	2100.000	ug/kg C U
2,4,6-Trichlorophenol	400.000	ug/kg C U	410.000	ug/kg C U	440.000	ug/kg C U
2,4-Dichlorophenol	400.000	ug/kg C U	410.000	ug/kg C U	440.000	ug/kg C U
2,4-Dimethylphenol	400.000	ug/kg C U	410.000	ug/kg C U	440.000	ug/kg C U
2,4-Dinitrophenol	1900.000	ug/kg C R	1000.000	ug/kg C R	2100.000	ug/kg C R
2,4-Dinitrotoluene	400.000	ug/kg C U	410.000	ug/kg C U	440.000	ug/kg C U
2,6-Dinitrotoluene	400.000	ug/kg C U	410.000	ug/kg C U	440.000	ug/kg C U
2-Chloronaphthalene	400.000	ug/kg C U	410.000	ug/kg C U	440.000	ug/kg C U
2-Chlorophenol	400.000	ug/kg C U	410.000	ug/kg C U	440.000	ug/kg C U
2-Methylnaphthalene	400.000	ug/kg C U	410.000	ug/kg C U	440.000	ug/kg C U
2-Methylphenol	400.000	ug/kg C U	410.000	ug/kg C U	440.000	ug/kg C U
2-Nitroaniline	1900.000	ug/kg C U	1000.000	ug/kg C U	2100.000	ug/kg C U
2-Nitrophenol	400.000	ug/kg C U	410.000	ug/kg C U	440.000	ug/kg C U
3,3'-Dichlorobenzidine	400.000	ug/kg C U	410.000	ug/kg C U	440.000	ug/kg C U

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TABLE E-9
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SD-02			IFP-SD-03			IFP-SD-03		
SAMPLE NUMBER	111812	ug/kg	C R	116219	ug/kg	C U	111813	ug/kg	C R
SAMPLING DATE	0-0.5			410.000	ug/kg	C U	0-0.5	ug/kg	C U
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ	RESULTS	UNITS	L VQ	RESULTS	UNITS	L VQ
<u>Semivolatile Organics</u>									
3-Nitroaniline	1900.000	ug/kg	C U	1000.000	ug/kg	C U	2100.000	ug/kg	C U
4,6-Dinitro-2-methylphenol	1900.000	ug/kg	C R	1000.000	ug/kg	C U	2100.000	ug/kg	C R
4-Bromophenyl phenyl ether	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
4-Chloro-3-methylphenol	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
4-Chlorophenylphenyl ether	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
4-Methylphenol	400.000	ug/kg	C U	310.000	ug/kg	C J	440.000	ug/kg	C U
4-Nitroaniline	1900.000	ug/kg	C U	1000.000	ug/kg	C U	2100.000	ug/kg	C U
4-Nitrophenol	1900.000	ug/kg	C UJ	1000.000	ug/kg	C U	2100.000	ug/kg	C R
Acenaphthene	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
Acenaphthylene	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
Anthracene	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
Benzo(a)anthracene	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
Benzo(a)pyrene	9.000	ug/kg	C J	410.000	ug/kg	C U	440.000	ug/kg	C U
Benzo(b)fluoranthene	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
Benzo(g,h,i)perylene	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
Benzo(k)fluoranthene	400.000	ug/kg	C U	410.000	ug/kg	C U	130.000	ug/kg	C J
Benzoic acid	28.000	ug/kg	C R	410.000	ug/kg	C U	440.000	ug/kg	C U
Benzyl alcohol	400.000	ug/kg	C UJ	45.000	ug/kg	C J	57.000	ug/kg	C R
Butyl benzyl phthalate	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
Carbazole	7.000	ug/kg	C J	410.000	ug/kg	C U	440.000	ug/kg	C U
Chrysene	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
Di-n-butyl phthalate	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
Di-n-octyl phthalate	2.000	ug/kg	C J	410.000	ug/kg	C U	440.000	ug/kg	C UJ
Dibenzo(a,h)anthracene	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C UJ
Dibenzofuran	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
Diethyl phthalate	14.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
Dimethyl phthalate	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
Fluoranthene	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
Fluorene	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
Hexachlorobenzene	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
Hexachlorobutadiene	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
Hexachlorocyclopentadiene	400.000	ug/kg	C UJ	410.000	ug/kg	C U	440.000	ug/kg	C U
Hexachloroethane	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
Indeno(1,2,3-cd)pyrene	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
Isophorone	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
N-Nitroso-di-n-propylamine	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
N-Nitrosodiphenylamine	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
Naphthalene	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
Nitrobenzene	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
Pentachlorophenol	1900.000	ug/kg	C U	1000.000	ug/kg	C U	2100.000	ug/kg	C UJ
Phenanthrene	400.000	ug/kg	C U	410.000	ug/kg	C U	440.000	ug/kg	C U
Phenol	24.000	ug/kg	C J	410.000	ug/kg	C U	440.000	ug/kg	C U

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TABLE E-9
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SD-02			IFP-SD-03			IFP-SD-03					
SAMPLE NUMBER	111812	116219		111813	116219		0-0.5	0-0.5				
SAMPLING DATE	0-0.5	04/17/93		05/01/93	04/17/93		04/17/93	04/17/93				
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS			
<u>Semivolatile Organics</u>												
Pyrene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	47.000	ug/kg	C	J
bis(2-Chloroethoxy)methane	400.000	ug/kg	C	U	410.000	ug/kg	C	U	440.000	ug/kg	C	U
bis(2-Chloroethyl)ether	400.000	ug/kg	C	U	410.000	ug/kg	C	U	440.000	ug/kg	C	U
bis(2-Chloroisopropyl) ether	400.000	ug/kg	C	U	410.000	ug/kg	C	U	440.000	ug/kg	C	UJ
bis(2-Ethylhexyl) phthalate	59.000	ug/kg	C	J	2200.000	ug/kg	C	-	51.000	ug/kg	C	J
p-Chloroaniline	400.000	ug/kg	C	U	410.000	ug/kg	C	U	440.000	ug/kg	C	U
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	4.000	ug/kg	C	U	4.300	ug/kg	C	U	4.400	ug/kg	C	U
4,4'-DDE	4.000	ug/kg	C	U	4.300	ug/kg	C	U	4.400	ug/kg	C	U
4,4'-DDT	4.000	ug/kg	C	U	4.300	ug/kg	C	U	4.400	ug/kg	C	U
Aldrin	2.000	ug/kg	C	U	2.200	ug/kg	C	U	2.300	ug/kg	C	U
Aroclor-1016	40.000	ug/kg	C	U	43.000	ug/kg	C	UJ	44.000	ug/kg	C	U
Aroclor-1221	80.000	ug/kg	C	U	87.000	ug/kg	C	UJ	90.000	ug/kg	C	U
Aroclor-1232	40.000	ug/kg	C	U	43.000	ug/kg	C	UJ	44.000	ug/kg	C	U
Aroclor-1242	40.000	ug/kg	C	U	43.000	ug/kg	C	UJ	44.000	ug/kg	C	U
Aroclor-1248	40.000	ug/kg	C	U	43.000	ug/kg	C	UJ	44.000	ug/kg	C	U
Aroclor-1254	40.000	ug/kg	C	U	43.000	ug/kg	C	UJ	44.000	ug/kg	C	U
Aroclor-1260	40.000	ug/kg	C	U	43.000	ug/kg	C	UJ	44.000	ug/kg	C	U
Dieldrin	4.000	ug/kg	C	U	4.300	ug/kg	C	U	4.400	ug/kg	C	U
Endosulfan II	4.000	ug/kg	C	U	4.300	ug/kg	C	U	4.400	ug/kg	C	U
Endosulfan sulfate	4.000	ug/kg	C	U	4.300	ug/kg	C	U	4.400	ug/kg	C	U
Endosulfan-I	2.000	ug/kg	C	U	2.200	ug/kg	C	U	2.300	ug/kg	C	U
Endrin	4.000	ug/kg	C	U	4.300	ug/kg	C	U	4.400	ug/kg	C	U
Endrin aldehyde	4.000	ug/kg	C	U	4.300	ug/kg	C	U	4.400	ug/kg	C	U
Endrin ketone	4.000	ug/kg	C	U	4.300	ug/kg	C	U	4.400	ug/kg	C	U
Heptachlor	2.000	ug/kg	C	U	2.200	ug/kg	C	U	2.300	ug/kg	C	U
Heptachlor epoxide	2.000	ug/kg	C	U	2.200	ug/kg	C	U	2.300	ug/kg	C	U
Methoxychlor	20.000	ug/kg	C	U	22.000	ug/kg	C	U	23.000	ug/kg	C	U
Toxaphene	200.000	ug/kg	C	U	220.000	ug/kg	C	UJ	230.000	ug/kg	C	U
alpha-BHC	2.000	ug/kg	C	U	2.200	ug/kg	C	U	2.300	ug/kg	C	U
alpha-Chlordane	2.000	ug/kg	C	U	2.200	ug/kg	C	U	2.300	ug/kg	C	U
beta-BHC	2.000	ug/kg	C	U	2.200	ug/kg	C	U	2.300	ug/kg	C	U
delta-BHC	2.000	ug/kg	C	U	2.200	ug/kg	C	U	2.300	ug/kg	C	U
gamma-BHC (Lindane)	2.000	ug/kg	C	U	2.200	ug/kg	C	U	2.300	ug/kg	C	U
gamma-Chlordane	2.000	ug/kg	C	U	2.200	ug/kg	C	U	2.300	ug/kg	C	U

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TABLE E-9
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SD-04			IFP-SD-04			IFP-SD-02					
SAMPLE NUMBER	111815			112017			112021					
SAMPLING DATE	0-0.5			0-0.5			0-0.5					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS			
<u>Inorganics</u>												
Aluminum	5120.000	mg/kg	C	-	1580.000	mg/kg	C	-	3130.000	mg/kg	D	-
Antimony	1.000	mg/kg	C	UJ	0.450	mg/kg	C	UJ	0.360	mg/kg	D	UJ
Arsenic	3.600	mg/kg	C	-	2.400	mg/kg	C	J	1.700	mg/kg	D	J
Barium	40.800	mg/kg	C	-	17.100	mg/kg	C	J	16.500	mg/kg	D	J
Beryllium	0.410	mg/kg	C	U	0.240	mg/kg	C	U	0.240	mg/kg	D	U
Cadmium	1.000	mg/kg	C	U	0.480	mg/kg	C	U	0.670	mg/kg	D	-
Calcium	75200.000	mg/kg	C	-	56000.000	mg/kg	C	J	105000.000	mg/kg	D	J
Chromium	6.200	mg/kg	C	-	3.700	mg/kg	C	-	4.900	mg/kg	D	-
Cobalt	4.200	mg/kg	C	-	1.800	mg/kg	C	-	3.100	mg/kg	D	-
Copper	8.800	mg/kg	C	-	5.500	mg/kg	C	U	9.300	mg/kg	D	-
Cyanide	0.140	mg/kg	C	U	0.120	mg/kg	C	UJ	0.160	mg/kg	D	J
Iron	9970.000	mg/kg	C	-	4260.000	mg/kg	C	J	8110.000	mg/kg	D	J
Lead	22.400	mg/kg	C	-	5.000	mg/kg	C	J	4.100	mg/kg	D	J
Magnesium	17700.000	mg/kg	C	-	13500.000	mg/kg	C	-	22500.000	mg/kg	D	-
Manganese	429.000	mg/kg	C	-	253.000	mg/kg	C	J	327.000	mg/kg	D	J
Mercury	0.100	mg/kg	C	U	0.120	mg/kg	C	U	0.110	mg/kg	D	U
Molybdenum	4.100	mg/kg	C	U	0.910	mg/kg	C	U	2.200	mg/kg	D	U
Nickel	9.200	mg/kg	C	-	4.400	mg/kg	C	-	6.600	mg/kg	D	-
Potassium	687.000	mg/kg	C	-	253.000	mg/kg	C	J	812.000	mg/kg	D	J
Selenium	0.380	mg/kg	C	U	0.240	mg/kg	C	UJ	0.230	mg/kg	D	UJ
Silicon	496.000	mg/kg	C	-	642.000	mg/kg	C	J	805.000	mg/kg	D	J
Silver	2.100	mg/kg	C	U	0.480	mg/kg	C	U	0.480	mg/kg	D	U
Sodium	130.000	mg/kg	C	-	120.000	mg/kg	C	-	175.000	mg/kg	D	-
Thallium	0.380	mg/kg	C	U	0.240	mg/kg	C	U	0.230	mg/kg	D	U
Vanadium	14.100	mg/kg	C	-	8.000	mg/kg	C	UJ	12.500	mg/kg	D	J
Zinc	32.100	mg/kg	C	-	12.700	mg/kg	C	UJ	29.000	mg/kg	D	J
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	14.000	ug/kg	C	U	14.000	ug/kg	C	U	13.000	ug/kg	D	U
1,1,2,2-Tetrachloroethane	14.000	ug/kg	C	U	14.000	ug/kg	C	U	13.000	ug/kg	D	U
1,1,2-Trichloroethane	14.000	ug/kg	C	U	14.000	ug/kg	C	U	13.000	ug/kg	D	U
1,1-Dichloroethane	14.000	ug/kg	C	U	14.000	ug/kg	C	U	13.000	ug/kg	D	U
1,1-Dichloroethene	14.000	ug/kg	C	U	14.000	ug/kg	C	U	13.000	ug/kg	D	U
1,2-Dichloroethane	14.000	ug/kg	C	U	14.000	ug/kg	C	U	13.000	ug/kg	D	U
1,2-Dichloroethene	14.000	ug/kg	C	U	14.000	ug/kg	C	U	13.000	ug/kg	D	U
1,2-Dichloropropane	14.000	ug/kg	C	U	14.000	ug/kg	C	U	13.000	ug/kg	D	U
2-Butanone	14.000	ug/kg	C	U	14.000	ug/kg	C	U	13.000	ug/kg	D	U
2-Hexanone	14.000	ug/kg	C	UJ	14.000	ug/kg	C	U	13.000	ug/kg	D	U
4-Methyl-2-pentanone	14.000	ug/kg	C	U	14.000	ug/kg	C	U	13.000	ug/kg	D	U
Acetone	12.000	ug/kg	C	J	22.000	ug/kg	C	-	13.000	ug/kg	D	U
Benzene	14.000	ug/kg	C	U	14.000	ug/kg	C	U	13.000	ug/kg	D	U

TABLE E-9
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SD-04			IFP-SD-04			IFP-SD-02		
SAMPLE NUMBER	111815	0-0.5	04/17/93	112017	0-0.5	04/29/93	112021	0-0.5	04/30/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ	RESULTS	UNITS	L VQ	RESULTS	UNITS	L VQ
<u>Volatile Organics</u>									
Bromodichloromethane	14.000	ug/kg	C U	14.000	ug/kg	C U	13.000	ug/kg	D U
Bromoform	14.000	ug/kg	C U	14.000	ug/kg	C U	13.000	ug/kg	D U
Bromomethane	14.000	ug/kg	C UJ	14.000	ug/kg	C UJ	13.000	ug/kg	D UJ
Carbon Tetrachloride	14.000	ug/kg	C U	14.000	ug/kg	C U	13.000	ug/kg	D U
Carbon disulfide	14.000	ug/kg	C U	14.000	ug/kg	C U	13.000	ug/kg	D U
Chlorobenzene	14.000	ug/kg	C U	14.000	ug/kg	C U	13.000	ug/kg	D U
Chloroethane	14.000	ug/kg	C U	14.000	ug/kg	C UJ	13.000	ug/kg	D UJ
Chloroform	14.000	ug/kg	C U	14.000	ug/kg	C U	13.000	ug/kg	D U
Chloromethane	14.000	ug/kg	C U	14.000	ug/kg	C U	13.000	ug/kg	D U
Dibromochloromethane	14.000	ug/kg	C U	14.000	ug/kg	C U	13.000	ug/kg	D U
Ethylbenzene	14.000	ug/kg	C U	14.000	ug/kg	C U	13.000	ug/kg	D U
Methylene chloride	22.000	ug/kg	C U	14.000	ug/kg	C U	13.000	ug/kg	D U
Styrene	14.000	ug/kg	C U	14.000	ug/kg	C U	13.000	ug/kg	D U
Tetrachloroethane	14.000	ug/kg	C U	14.000	ug/kg	C U	13.000	ug/kg	D U
Toluene	14.000	ug/kg	C U	14.000	ug/kg	C U	13.000	ug/kg	D U
Trichloroethene	14.000	ug/kg	C U	14.000	ug/kg	C U	13.000	ug/kg	D U
Vinyl Acetate	14.000	ug/kg	C UJ	NA			NA		
Vinyl chloride	14.000	ug/kg	C U	14.000	ug/kg	C U	13.000	ug/kg	D U
Xylenes, Total	14.000	ug/kg	C U	14.000	ug/kg	C U	13.000	ug/kg	D U
cis-1,3-Dichloropropene	14.000	ug/kg	C U	14.000	ug/kg	C U	13.000	ug/kg	D U
trans-1,3-Dichloropropene	14.000	ug/kg	C U	14.000	ug/kg	C U	13.000	ug/kg	D U
<u>Semivolatile Organics</u>									
1,2,4-Trichlorobenzene	460.000	ug/kg	C U	410.000	ug/kg	C UJ	400.000	ug/kg	D UJ
1,2-Dichlorobenzene	460.000	ug/kg	C U	410.000	ug/kg	C U	400.000	ug/kg	D U
1,3-Dichlorobenzene	460.000	ug/kg	C U	410.000	ug/kg	C U	400.000	ug/kg	D U
1,4-Dichlorobenzene	460.000	ug/kg	C U	410.000	ug/kg	C U	400.000	ug/kg	D U
2,4,5-Trichlorophenol	2200.000	ug/kg	C U	990.000	ug/kg	C U	960.000	ug/kg	D U
2,4,6-Trichlorophenol	460.000	ug/kg	C U	410.000	ug/kg	C U	400.000	ug/kg	D U
2,4-Dichlorophenol	460.000	ug/kg	C U	410.000	ug/kg	C U	400.000	ug/kg	D U
2,4-Dimethylphenol	460.000	ug/kg	C U	410.000	ug/kg	C U	400.000	ug/kg	D U
2,4-Dinitrophenol	2200.000	ug/kg	R	990.000	ug/kg	C UJ	960.000	ug/kg	D UJ
2,4-Dinitrotoluene	460.000	ug/kg	C U	410.000	ug/kg	C U	400.000	ug/kg	D U
2,6-Dinitrotoluene	460.000	ug/kg	C U	410.000	ug/kg	C U	400.000	ug/kg	D U
2-Chloronaphthalene	460.000	ug/kg	C U	410.000	ug/kg	C U	400.000	ug/kg	D U
2-Chlorophenol	460.000	ug/kg	C U	410.000	ug/kg	C U	400.000	ug/kg	D U
2-Methylnaphthalene	460.000	ug/kg	C U	410.000	ug/kg	C U	400.000	ug/kg	D U
2-Methylphenol	460.000	ug/kg	C U	410.000	ug/kg	C UJ	400.000	ug/kg	D UJ
2-Nitroaniline	2200.000	ug/kg	C U	990.000	ug/kg	C U	960.000	ug/kg	D U
2-Nitrophenol	460.000	ug/kg	C U	410.000	ug/kg	C U	400.000	ug/kg	D U
3,3'-Dichlorobenzidine	460.000	ug/kg	C U	410.000	ug/kg	C U	400.000	ug/kg	D U

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0000139

TABLE E-9
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SD-04	IFP-SD-04	IFP-SD-02
SAMPLE NUMBER	111815	112017	112021
SAMPLING DATE	0-0.5 04/17/93	0-0.5 04/29/93	0-0.5 04/30/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
3-Nitroaniline	2200.000	ug/kg C U	990.000
4,6-Dinitro-2-methylphenol	2200.000	ug/kg C R	990.000
4-Bromophenyl phenyl ether	460.000	ug/kg C U	410.000
4-Chloro-3-methylphenol	460.000	ug/kg C U	410.000
4-Chlorophenylphenyl ether	460.000	ug/kg C U	410.000
4-Methylphenol	190.000	ug/kg C J	410.000
4-Nitroaniline	2200.000	ug/kg C U	990.000
4-Nitrophenol	2200.000	ug/kg C UJ	990.000
Acenaphthene	460.000	ug/kg C U	410.000
Acenaphthylene	460.000	ug/kg C U	410.000
Anthracene	67.000	ug/kg C J	410.000
Benzo(a)anthracene	48.000	ug/kg C J	410.000
Benzo(a)pyrene	60.000	ug/kg C J	410.000
Benzo(b)fluoranthene	39.000	ug/kg C J	410.000
Benzo(g,h,i)perylene	38.000	ug/kg C J	410.000
Benzo(k)fluoranthene	53.000	ug/kg C J	410.000
Benzoic acid	150.000	ug/kg C R	2000.000
Benzyl alcohol	460.000	ug/kg C UJ	410.000
Butyl benzyl phthalate	460.000	ug/kg C U	410.000
Carbazole	7.000	ug/kg C J	410.000
Chrysene	61.000	ug/kg C J	410.000
Di-n-butyl phthalate	460.000	ug/kg C U	410.000
Di-n-octyl phthalate	7.000	ug/kg C J	410.000
Dibenz(a,h)anthracene	460.000	ug/kg C U	410.000
Dibenzofuran	460.000	ug/kg C U	410.000
Diethyl phthalate	14.000	ug/kg C J	410.000
Dimethyl phthalate	460.000	ug/kg C U	410.000
Fluoranthene	120.000	ug/kg C J	410.000
Fluorene	7.000	ug/kg C J	410.000
Hexachlorobenzene	460.000	ug/kg C U	410.000
Hexachlorobutadiene	460.000	ug/kg C U	410.000
Hexachlorocyclopentadiene	460.000	ug/kg C UJ	410.000
Hexachloroethane	460.000	ug/kg C U	410.000
Indeno(1,2,3-cd)pyrene	35.000	ug/kg C J	410.000
Isophorone	460.000	ug/kg C U	410.000
N-Nitroso-di-n-propylamine	460.000	ug/kg C U	410.000
N-Nitrosodiphenylamine	460.000	ug/kg C U	410.000
Naphthalene	460.000	ug/kg C U	410.000
Nitrobenzene	460.000	ug/kg C U	410.000
Pentachlorophenol	2200.000	ug/kg C U	990.000
Phenanthrene	67.000	ug/kg C J	410.000
Phenol	42.000	ug/kg C J	410.000

E-915

TABLE E-9
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SD-04	IFP-SD-04	IFP-SD-02			
SAMPLE NUMBER	111815	112017	112021			
SAMPLING DATE	0-0.5 04/17/93	0-0.5 04/29/93	0-0.5 04/30/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Pyrene	100.000	ug/kg C J	410.000	ug/kg C U	400.000	ug/kg D U
bis(2-Chloroethoxy)methane	460.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg D U
bis(2-Chloroethyl)ether	460.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg D U
bis(2-Chloroisopropyl) ether	460.000	ug/kg C U	410.000	ug/kg C UJ	400.000	ug/kg D UJ
bis(2-Ethylhexyl) phthalate	70.000	ug/kg C J	700.000	ug/kg C -	1200.000	ug/kg D -
p-Chloroaniline	460.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg D U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	4.600	ug/kg C U	4.100	ug/kg C U	3.900	ug/kg D U
4,4'-DDE	4.600	ug/kg C U	4.100	ug/kg C U	3.900	ug/kg D U
4,4'-DDT	4.600	ug/kg C U	4.100	ug/kg C U	3.900	ug/kg D U
Aldrin	2.400	ug/kg C U	2.100	ug/kg C U	2.000	ug/kg D U
Aroclor-1016	46.000	ug/kg C U	41.000	ug/kg C UJ	39.000	ug/kg D UJ
Aroclor-1221	93.000	ug/kg C U	84.000	ug/kg C UJ	80.000	ug/kg D UJ
Aroclor-1232	46.000	ug/kg C U	41.000	ug/kg C UJ	39.000	ug/kg D UJ
Aroclor-1242	46.000	ug/kg C U	41.000	ug/kg C UJ	39.000	ug/kg D UJ
Aroclor-1248	46.000	ug/kg C U	41.000	ug/kg C UJ	39.000	ug/kg D UJ
Aroclor-1254	46.000	ug/kg C U	41.000	ug/kg C UJ	39.000	ug/kg D UJ
Aroclor-1260	46.000	ug/kg C U	41.000	ug/kg C UJ	39.000	ug/kg D UJ
Dieldrin	4.600	ug/kg C U	4.100	ug/kg C U	3.900	ug/kg D U
Endosulfan II	4.600	ug/kg C U	4.100	ug/kg C U	3.900	ug/kg D U
Endosulfan sulfate	4.600	ug/kg C U	4.100	ug/kg C U	3.900	ug/kg D U
Endosulfan-I	2.400	ug/kg C U	2.100	ug/kg C U	2.000	ug/kg D U
Endrin	4.600	ug/kg C U	4.100	ug/kg C U	3.900	ug/kg D U
Endrin aldehyde	4.600	ug/kg C U	4.100	ug/kg C U	3.900	ug/kg D U
Endrin ketone	4.600	ug/kg C U	4.100	ug/kg C U	3.900	ug/kg D U
Heptachlor	2.400	ug/kg C U	2.100	ug/kg C U	2.000	ug/kg D U
Heptachlor epoxide	2.400	ug/kg C U	2.100	ug/kg C U	2.000	ug/kg D U
Methoxychlor	24.000	ug/kg C U	21.000	ug/kg C UJ	20.000	ug/kg D UJ
Toxaphene	240.000	ug/kg C U	210.000	ug/kg C UJ	200.000	ug/kg D UJ
alpha-BHC	2.400	ug/kg C U	2.100	ug/kg C U	2.000	ug/kg D U
alpha-Chlordane	2.400	ug/kg C U	2.100	ug/kg C U	2.000	ug/kg D U
beta-BHC	2.400	ug/kg C U	2.100	ug/kg C U	2.000	ug/kg D U
delta-BHC	2.400	ug/kg C U	2.100	ug/kg C U	2.000	ug/kg D U
gamma-BHC (Lindane)	2.400	ug/kg C U	2.100	ug/kg C U	2.000	ug/kg D U
gamma-Chlordane	2.400	ug/kg C U	2.100	ug/kg C U	2.000	ug/kg D U

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TABLE E-10

DATA SHEET

TABLE E-10

INACTIVE FLYASH PILE
CIS ON-SITE LABORATORY SEDIMENT RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE ID: FMP-SD-53-001

EAST COORDINATE (FEET): 1378833.00

NORTH COORDINATE (FEET): 478016.00

Radionuclide ^a	Qualifier ^b	Begin - End Depth (feet)	Activity Concentration (pCi/g, dry)	Uncertainty (pCi/g, dry)
Cesium-137		0.00 - 0.50	0.50	0.20
Radium-226		0.00 - 0.50	1.40	0.50
Ruthenium-106	<	0.00 - 0.50	10.70	NA ^c
Thorium-232		0.00 - 0.50	1.10	0.60
Uranium-238		0.00 - 0.50	8.90	3.40

SAMPLE ID: FMP-SD-53-002

EAST COORDINATE (FEET): 1378831.00

NORTH COORDINATE (FEET): 478014.00

Radionuclide	Qualifier	Begin - End Depth (feet)	Activity Concentration (pCi/g, dry)	Uncertainty (pCi/g, dry)
Cesium-137	<	0.00 - 0.50	1.40	NA
Radium-226		0.00 - 0.50	0.80	0.30
Ruthenium-106	<	0.00 - 0.50	8.60	NA
Thorium-232	<	0.00 - 0.50	0.50	NA
Uranium-238		0.00 - 0.50	4.00	3.10

^aRA-226 when reported, were measured by gamma spectrometry and reported on a dry weight basis.^bQualifiers are from the laboratory. No validation qualifiers were available. < = less than.^cNot Applicable

TABLE E-11

TABLE E-11
INACTIVE FLYASH PILE
RI/FS SURFACE WATER RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	ASIT-009 001174				ASIT-009 001175				W-11 001107			
SAMPLING DATE	03/30/89				03/30/89				01/12/89			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137		NA				NA			FILT	20.000	pCi/L	R
CS-137		NA				NA			UNFI	20.000	pCi/L	R
GROSS ALPHA	FILT	23.000	pCi/L	NV		NA				NA		
GROSS ALPHA		NA			UNFI	19.000	pCi/L	NV		NA		
GROSS BETA	FILT	14.000	pCi/L	NV		NA				NA		
GROSS BETA		NA			UNFI	20.000	pCi/L	NV		NA		
NP-237		NA				NA			FILT	1.000	pCi/L	U
NP-237		NA				NA			UNFI	1.000	pCi/L	U
PU-238		NA				NA			FILT	1.000	pCi/L	U
PU-238		NA				NA			UNFI	1.000	pCi/L	U
PU-239/240		NA				NA			FILT	1.000	pCi/L	U
PU-239/240		NA				NA			UNFI	1.000	pCi/L	U
RA-226	FILT	1.000	pCi/L	U		NA			FILT	1.000	pCi/L	R
RA-226		NA			UNFI	1.000	pCi/L	U	UNFI	1.000	pCi/L	R
RA-228	FILT	3.000	pCi/L	UJ		NA			FILT	3.000	pCi/L	UJ
RA-228		NA			UNFI	3.000	pCi/L	UJ	UNFI	3.000	pCi/L	UJ
RU-106		NA				NA			FILT	150.000	pCi/L	R
RU-106		NA				NA			UNFI	150.000	pCi/L	R
SR-90		NA				NA			FILT	5.000	pCi/L	U
SR-90		NA				NA			UNFI	5.000	pCi/L	U
TC-99		NA				NA			FILT	30.000	pCi/L	U
TC-99		NA				NA			UNFI	30.000	pCi/L	U
TH-228		NA				NA			FILT	1.000	pCi/L	U
TH-228		NA				NA			UNFI	1.000	pCi/L	U
TH-230		NA				NA			FILT	1.000	pCi/L	U
TH-230		NA				NA			UNFI	1.000	pCi/L	U
TH-232		NA				NA			FILT	1.000	pCi/L	U
TH-232		NA				NA			UNFI	1.000	pCi/L	U
U-234		NA				NA			FILT	3.200	pCi/L	-
U-234		NA				NA			UNFI	5.000	pCi/L	-
U-235/236		NA				NA			FILT	1.000	pCi/L	U
U-235/236		NA				NA			UNFI	1.000	pCi/L	U
U-238		NA				NA			FILT	6.200	pCi/L	-
U-238		NA				NA			UNFI	6.800	pCi/L	-
U-TOTAL	FILT	32.000	ug/L	-		NA			FILT	17.000	ug/L	R
U-TOTAL		NA			UNFI	40.000	ug/L	-	UNFI	19.000	ug/L	R

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TABLE E-11
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	W-11 001208				W-11 001209				W-11 001247			
SAMPLING DATE	05/14/89				05/14/89				07/15/90			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	FILT	20.000	pCi/L	R	UNFI	NA	pCi/L	R	UNKN	NA	pCi/L	U
CS-137	FILT	NA	pCi/L	U	UNFI	NA	pCi/L	U	UNKN	NA	pCi/L	U
NP-237	FILT	1.000	pCi/L	U	UNFI	NA	pCi/L	U	UNKN	NA	pCi/L	U
NP-237	FILT	NA	pCi/L	U	UNFI	1.000	pCi/L	U	UNKN	NA	pCi/L	U
NP-237	FILT	NA	pCi/L	U	UNFI	NA	pCi/L	U	UNKN	1.000	pCi/L	U
PU-238	FILT	1.000	pCi/L	U	UNFI	NA	pCi/L	U	UNKN	NA	pCi/L	U
PU-238	FILT	NA	pCi/L	U	UNFI	1.000	pCi/L	U	UNKN	NA	pCi/L	U
PU-238	FILT	NA	pCi/L	U	UNFI	NA	pCi/L	U	UNKN	1.000	pCi/L	U
PU-239/240	FILT	1.000	pCi/L	U	UNFI	NA	pCi/L	U	UNKN	NA	pCi/L	U
PU-239/240	FILT	NA	pCi/L	U	UNFI	1.000	pCi/L	U	UNKN	NA	pCi/L	U
PU-239/240	FILT	NA	pCi/L	U	UNFI	NA	pCi/L	U	UNKN	1.000	pCi/L	U
RA-226	FILT	1.000	pCi/L	U	UNFI	NA	pCi/L	U	UNKN	NA	pCi/L	U
RA-226	FILT	NA	pCi/L	U	UNFI	1.000	pCi/L	U	UNKN	NA	pCi/L	U
RA-226	FILT	NA	pCi/L	U	UNFI	NA	pCi/L	U	UNKN	1.000	pCi/L	U
RA-228	FILT	3.000	pCi/L	UJ	UNFI	NA	pCi/L	UJ	UNKN	NA	pCi/L	U
RA-228	FILT	NA	pCi/L	UJ	UNFI	3.000	pCi/L	UJ	UNKN	NA	pCi/L	U
RA-228	FILT	NA	pCi/L	UJ	UNFI	NA	pCi/L	UJ	UNKN	3.000	pCi/L	U
RU-106	FILT	150.000	pCi/L	R	UNFI	NA	pCi/L	R	UNKN	NA	pCi/L	U
RU-106	FILT	NA	pCi/L	R	UNFI	150.000	pCi/L	R	UNKN	NA	pCi/L	U
SR-90	FILT	5.000	pCi/L	U	UNFI	NA	pCi/L	U	UNKN	NA	pCi/L	U
SR-90	FILT	NA	pCi/L	U	UNFI	5.000	pCi/L	U	UNKN	NA	pCi/L	U
SR-90	FILT	NA	pCi/L	U	UNFI	NA	pCi/L	U	UNKN	5.000	pCi/L	U
TC-99	FILT	30.000	pCi/L	UJ	UNFI	NA	pCi/L	UJ	UNKN	NA	pCi/L	U
TC-99	FILT	NA	pCi/L	UJ	UNFI	30.000	pCi/L	UJ	UNKN	NA	pCi/L	U
TC-99	FILT	NA	pCi/L	UJ	UNFI	NA	pCi/L	UJ	UNKN	30.000	pCi/L	UJ
TH-228	FILT	1.000	pCi/L	UJ	UNFI	NA	pCi/L	UJ	UNKN	NA	pCi/L	U
TH-228	FILT	NA	pCi/L	UJ	UNFI	1.000	pCi/L	UJ	UNKN	NA	pCi/L	U
TH-228	FILT	NA	pCi/L	UJ	UNFI	NA	pCi/L	UJ	UNKN	1.000	pCi/L	U
TH-230	FILT	1.000	pCi/L	UJ	UNFI	NA	pCi/L	UJ	UNKN	NA	pCi/L	U
TH-230	FILT	NA	pCi/L	UJ	UNFI	1.000	pCi/L	UJ	UNKN	NA	pCi/L	U
TH-230	FILT	NA	pCi/L	UJ	UNFI	NA	pCi/L	UJ	UNKN	6.740	pCi/L	J
TH-232	FILT	1.000	pCi/L	UJ	UNFI	NA	pCi/L	UJ	UNKN	NA	pCi/L	U
TH-232	FILT	NA	pCi/L	UJ	UNFI	1.000	pCi/L	UJ	UNKN	NA	pCi/L	U
TH-232	FILT	NA	pCi/L	UJ	UNFI	NA	pCi/L	UJ	UNKN	1.000	pCi/L	UJ
TH-TOTAL	FILT	5.000	ug/L	UJ	UNFI	NA	ug/L	UJ	UNKN	NA	ug/L	J
TH-TOTAL	FILT	NA	ug/L	UJ	UNFI	6.000	ug/L	UJ	UNKN	NA	ug/L	J
TH-TOTAL	FILT	NA	ug/L	UJ	UNFI	NA	ug/L	UJ	UNKN	3.580	ug/L	J
U-234	FILT	2.200	pCi/L	-	UNFI	NA	pCi/L	-	UNKN	NA	pCi/L	-
U-234	FILT	NA	pCi/L	-	UNFI	2.500	pCi/L	-	UNKN	NA	pCi/L	-
U-234	FILT	NA	pCi/L	-	UNFI	NA	pCi/L	-	UNKN	4.260	pCi/L	-
U-235/236	FILT	1.000	pCi/L	U	UNFI	NA	pCi/L	U	UNKN	NA	pCi/L	-
U-235/236	FILT	NA	pCi/L	U	UNFI	1.000	pCi/L	U	UNKN	NA	pCi/L	-

TABLE E-11
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	W-11 001208				W-11 001209				W-11 001247			
SAMPLING DATE	05/14/89				05/14/89				07/15/90			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
U-235/236		NA				NA				1.000	pCi/L	U
U-238	FILT	2.800	pCi/L	-	UNFI	2.600	pCi/L	-	UNKN	NA	NA	
U-238		NA				NA				NA	NA	
U-238		NA				NA				NA	NA	
U-TOTAL	FILT	9.000	ug/L	-	UNFI	9.000	ug/L	-	UNKN	3.660	pCi/L	-
U-TOTAL		NA				NA				NA	NA	

E-11-3

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TABLE E-11
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	W-11		
SAMPLE NUMBER	001248		
SAMPLING DATE	07/15/90		
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS
NP-237	UNKN	1.000	pc ¹ /L
PU-238	UNKN	1.000	pc ¹ /L
PU-239/240	UNKN	1.000	pc ¹ /L
RA-226	UNKN	1.000	pc ¹ /L
RA-228	UNKN	3.000	pc ¹ /L
SR-90	UNKN	24.000	pc ¹ /L
TC-99	UNKN	30.000	pc ¹ /L
TH-228	UNKN	1.000	pc ¹ /L
TH-230	UNKN	2.810	pc ¹ /L
TH-232	UNKN	1.000	pc ¹ /L
TH-TOTAL	UNKN	3.300	ug/L
U-234	UNKN	3.680	pc ¹ /L
U-235/236	UNKN	1.000	pc ¹ /L
U-238	UNKN	3.500	pc ¹ /L

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0000136

TABLE E-11
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	ASIT-009 001175				W-11 001107				W-11 001209						
SAMPLING DATE	03/30/89				01/12/89				05/14/89						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>															
Aluminum		NA					NA				UNKN	0.076	mg/L	C	J
Arsenic	UNKN	0.002	mg/L	C	UJ		NA				UNKN	0.002	mg/L	C	U
Barium	UNKN	0.027	mg/L	C	J		NA				UNKN	0.031	mg/L	C	J
Cadmium	UNKN	0.002	mg/L	C	J		NA				UNKN	0.002	mg/L	C	UJ
Calcium	UNKN	38.300	mg/L	C	J		NA				UNKN	71.800	mg/L	C	J
Chromium	UNKN	0.002	mg/L	C	UJ		NA				UNKN	0.010	mg/L	C	UJ
Copper	UNKN	0.008	mg/L	C	UJ		NA				UNKN	0.010	mg/L	C	UJ
Iron	UNKN	0.284	mg/L	C	J		NA				UNKN	0.041	mg/L	C	J
Lead	UNKN	0.008	mg/L	C	J		NA				UNKN	0.009	mg/L	C	-
Magnesium	UNKN	10.100	mg/L	C	J		NA				UNKN	20.900	mg/L	C	J
Manganese	UNKN	0.046	mg/L	C	J		NA				UNKN	0.012	mg/L	C	-
Mercury	UNKN	0.001	mg/L	C	J		NA				UNKN	0.000	mg/L	C	-
Molybdenum	UNKN	0.003	mg/L	C	UJ		NA				UNKN	0.010	mg/L	C	UJ
Nickel	UNKN	0.008	mg/L	C	J		NA				UNKN	0.020	mg/L	C	UJ
Potassium	UNKN	2.330	mg/L	C	-		NA				UNKN	1.680	mg/L	C	J
Selenium	UNKN	0.002	mg/L	C	UJ		NA				UNKN	0.002	mg/L	C	-
Silicon		NA					NA				UNKN	2.250	mg/L	C	J
Silver	UNKN	0.001	mg/L	C	UJ		NA				UNKN	0.010	mg/L	C	UJ
Sodium	UNKN	1.990	mg/L	C	-		NA				UNKN	9.690	mg/L	C	J
Vanadium		NA					NA				UNKN	0.010	mg/L	C	UJ
<u>Semivolatile Organics</u>															
Methyl parathion		NA				UNFI	0.250	ug/L	C	UJ		NA			
Parathion		NA				UNFI	0.250	ug/L	C	UJ		NA			
<u>Pesticide Organics/PCBs</u>															
Azinphosmethyl		NA				UNFI	2.500	ug/L	C	UJ		NA			
Demeton		NA				UNFI	0.250	ug/L	C	UJ		NA			
Diazinon		NA				UNFI	0.250	ug/L	C	UJ		NA			
Disulfoton		NA				UNFI	0.250	ug/L	C	UJ		NA			
Ethion		NA				UNFI	0.250	ug/L	C	UJ		NA			
Malathion		NA				UNFI	0.250	ug/L	C	UJ		NA			
<u>General Chemistry</u>															
Ammonia	UNFI	0.163	mg/L	C	J	UNFI	0.452	mg/L	C	-	UNFI	0.100	mg/L	C	UJ
Chloride	UNFI	3.500	mg/L	C	J	UNFI	16.500	mg/L	C	J	UNFI	19.990	mg/L	C	J
Fluoride	UNFI	0.300	mg/L	C	J	UNFI	0.215	mg/L	C	-	UNFI	0.180	mg/L	C	J
Nitrate	UNFI	0.140	mg/L	C	J	UNFI	4.600	mg/L	C	J	UNFI	2.310	mg/L	C	J
Phenols	UNFI	0.010	mg/L	C	UJ	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	UJ

TABLE E-11
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	ASIT-009 001175			W-11 001107			W-11 001209								
SAMPLING DATE	03/30/89			01/12/89			05/14/89								
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>General Chemistry</u>															
Phosphorus	UNFI	0.842	mg/L	C	J	UNFI	0.541	mg/L	C	J	UNFI	0.020	mg/L	C	UJ
Sulfate		NA				UNFI	37.000	mg/L	C	J	UNFI	57.360	mg/L	C	J
Sulfate	UNKN	171.000	mg/L	C	J	NA					NA				
Total Kjeldahl Nitrogen	UNFI	1.090	mg/L	C	J	UNFI	1.810	mg/L	C	J	UNFI	0.347	mg/L	C	J
Total Organic Carbon		NA				NA					UNFI	1.000	mg/L	C	UJ
Total Organic Halides	UNFI	0.016	mg/L	C	J	NA					UNFI	0.010	mg/L	C	J
Total Organic Nitrogen	UNFI	0.927	mg/L	C	J	UNFI	1.360	mg/L	C	J	UNFI	0.347	mg/L	C	J

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000198

TABLE E-11
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	W-11			
SAMPLE NUMBER	001247			
SAMPLING DATE	07/15/90			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ
<u>Inorganics</u>				
Aluminum	UNKN	0.060	mg/L	C U
Arsenic	UNKN	0.002	mg/L	C UJ
Barium	UNKN	0.047	mg/L	C -
Cadmium	UNKN	0.003	mg/L	C -
Calcium	UNKN	86.900	mg/L	C -
Chromium	UNKN	0.026	mg/L	C -
Copper	UNKN	0.010	mg/L	C U
Iron	UNKN	0.024	mg/L	C -
Lead	UNKN	0.006	mg/L	C -
Magnesium	UNKN	20.600	mg/L	C -
Manganese	UNKN	0.009	mg/L	C -
Mercury	UNKN	0.000	mg/L	C U
Molybdenum	UNKN	0.010	mg/L	C U
Nickel	UNKN	0.025	mg/L	C -
Potassium	UNKN	3.030	mg/L	C -
Selenium	UNKN	0.002	mg/L	C U
Silicon	UNKN	4.610	mg/L	C -
Silver	UNKN	0.013	mg/L	C -
Sodium	UNKN	9.750	mg/L	C -
Vanadium	UNKN	0.013	mg/L	C -
<u>General Chemistry</u>				
Ammonia	UNFI	0.100	mg/L	C U
Chloride	UNFI	9.210	mg/L	C -
Fluoride	UNFI	0.220	mg/L	C -
Nitrate	UNFI	12.100	mg/L	C J
Phenols	UNFI	0.020	mg/L	C -
Phosphorus	UNFI	0.170	mg/L	C J
Sulfate	UNFI	44.800	mg/L	C -
Sulfide	UNFI	0.500	mg/L	C U
Total Organic Carbon	UNFI	5.590	mg/L	C -
Total Organic Halides	UNFI	0.010	mg/L	C U
Total Organic Nitrogen	UNFI	0.580	mg/L	C -

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0001247

TABLE E-11
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	IFP-SW-02 111828				IFP-SW-02 112022				IFP-SW-03 111819			
SAMPLING DATE	04/26/93				04/30/93				04/21/93			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	UNFI	19.300	pCi/L	UJ	UNFI	15.700	pCi/L	UJ	UNFI	17.900	pCi/L	UJ
GROSS ALPHA	UNFI	72.900	pCi/L	J	UNFI	426.000	pCi/L	J	UNFI	5.850	pCi/L	UJ
GROSS BETA	UNFI	51.300	pCi/L	J	UNFI	172.000	pCi/L	J	UNFI	8.560	pCi/L	-
NP-237	UNFI	0.052	pCi/L	R	UNFI	0.790	pCi/L	N	UNFI	0.435	pCi/L	N
PU-238	UNFI	0.190	pCi/L	UJ	UNFI	2.910	pCi/L	-	UNFI	0.077	pCi/L	UJ
PU-239/240	UNFI	0.052	pCi/L	UJ	UNFI	0.200	pCi/L	J	UNFI	0.057	pCi/L	UJ
RA-226	UNFI	0.148	pCi/L	J	UNFI	0.150	pCi/L	UJ	UNFI	0.181	pCi/L	UJ
RA-228	UNFI	1.780	pCi/L	UJ	UNFI	1.770	pCi/L	UJ	UNFI	1.070	pCi/L	UJ
RU-106	UNFI	151.000	pCi/L	UJ	UNFI	64.600	pCi/L	UJ	UNFI	126.000	pCi/L	UJ
SR-90	UNFI	0.768	pCi/L	UJ	UNFI	0.810	pCi/L	UJ	UNFI	0.807	pCi/L	UJ
TC-99	UNFI	9.200	pCi/L	UJ	UNFI	9.200	pCi/L	UJ	UNFI	10.700	pCi/L	UJ
TH-228	UNFI	0.435	pCi/L	UJ	UNFI	0.150	pCi/L	UJ	UNFI	0.237	pCi/L	UJ
TH-230	UNFI	0.653	pCi/L	J	UNFI	0.340	pCi/L	J	UNFI	0.200	pCi/L	UJ
TH-232	UNFI	0.364	pCi/L	UJ	UNFI	0.058	pCi/L	UJ	UNFI	0.112	pCi/L	UJ
TH-TOTAL	UNFI	3.350	ug/L	UJ	UNFI	0.530	ug/L	UJ	UNFI	1.380	ug/L	UJ
U-234	UNFI	61.000	pCi/L	-	UNFI	265.000	pCi/L	-	UNFI	2.320	pCi/L	-
U-235/236	UNFI	2.900	pCi/L	-	UNFI	14.000	pCi/L	-	UNFI	0.123	pCi/L	UJ
U-238	UNFI	59.700	pCi/L	-	UNFI	257.000	pCi/L	-	UNFI	1.740	pCi/L	-
U-TOTAL	UNFI	165.000	ug/L	-	UNFI	820.000	ug/L	-	UNFI	5.250	ug/L	-

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000200

TABLE E-11
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	IFP-SW-03 112027			IFP-SW-04 111820			IFP-SW-04 112015					
SAMPLING DATE	05/01/93			04/21/93			04/29/93					
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	UNFI	14.800	pc ¹ /L	UJ	UNFI	15.000	pc ¹ /L	UJ	UNFI	11.200	pc ¹ /L	UJ
GROSS ALPHA	UNFI	5.830	pc ¹ /L	UJ	UNFI	8.940	pc ¹ /L	UJ	UNFI	6.400	pc ¹ /L	UJ
GROSS BETA	UNFI	4.280	pc ¹ /L	UJ	UNFI	3.480	pc ¹ /L	UJ	UNFI	4.300	pc ¹ /L	UJ
NP-237	UNFI	0.370	pc ¹ /L	U	UNFI	0.056	pc ¹ /L	R	UNFI	0.404	pc ¹ /L	UJ
PU-238	UNFI	0.170	pc ¹ /L	J	UNFI	0.120	pc ¹ /L	UJ	UNFI	0.157	pc ¹ /L	UJ
PU-239/240	UNFI	0.250	pc ¹ /L	J	UNFI	0.056	pc ¹ /L	UJ	UNFI	0.266	pc ¹ /L	J
RA-226	UNFI	0.102	pc ¹ /L	UJ	UNFI	0.088	pc ¹ /L	UJ	UNFI	0.187	pc ¹ /L	UJ
RA-228	UNFI	1.190	pc ¹ /L	UJ	UNFI	2.320	pc ¹ /L	UJ	UNFI	1.800	pc ¹ /L	UJ
RU-106	UNFI	151.000	pc ¹ /L	UJ	UNFI	154.000	pc ¹ /L	UJ	UNFI	142.000	pc ¹ /L	UJ
SR-90	UNFI	0.892	pc ¹ /L	UJ	UNFI	0.820	pc ¹ /L	UJ	UNFI	0.861	pc ¹ /L	UJ
TC-99	UNFI	8.900	pc ¹ /L	UJ	UNFI	8.600	pc ¹ /L	UJ	UNFI	8.600	pc ¹ /L	UJ
TH-228	UNFI	0.027	pc ¹ /L	J	UNFI	0.280	pc ¹ /L	UJ	UNFI	0.255	pc ¹ /L	UJ
TH-230	UNFI	0.320	pc ¹ /L	J	UNFI	0.260	pc ¹ /L	-	UNFI	0.433	pc ¹ /L	J
TH-232	UNFI	0.013	pc ¹ /L	UJ	UNFI	0.190	pc ¹ /L	UJ	UNFI	0.167	pc ¹ /L	UJ
TH-TOTAL	UNFI	0.015	ug/L	UJ	UNFI	1.730	ug/L	UJ	UNFI	1.540	ug/L	UJ
U-234	UNFI	1.760	pc ¹ /L	-	UNFI	2.350	pc ¹ /L	J	UNFI	1.420	pc ¹ /L	-
U-235/236	UNFI	0.150	pc ¹ /L	UJ	UNFI	0.160	pc ¹ /L	J	UNFI	0.124	pc ¹ /L	UJ
U-238	UNFI	2.130	pc ¹ /L	-	UNFI	2.260	pc ¹ /L	J	UNFI	1.840	pc ¹ /L	-
U-TOTAL	UNFI	5.030	ug/L	-	UNFI	5.870	ug/L	-	UNFI	4.570	ug/L	-

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000201

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FEMP-OOU2-6 FINAL
January 21, 1995

TABLE E-11
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	IFP-SW-03 111819'				IFP-SW-04 111820				IFP-SW-02 111828					
SAMPLING DATE	04/21/93				04/21/93				04/26/93					
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ		
<u>Inorganics</u>														
Aluminum	FILT	0.185	mg/L	C U	UNFI	NA	0.164	mg/L	C U	FILT	0.131	mg/L	C -	
Aluminum	FILT	NA	mg/L	C U	UNFI	NA	0.005	mg/L	C U	FILT	NA	0.005	mg/L	C UJ
Antimony	FILT	0.005	mg/L	C U	UNFI	NA	0.005	mg/L	C U	FILT	NA	0.002	mg/L	C U
Antimony	FILT	NA	mg/L	C U	UNFI	NA	0.002	mg/L	C UJ	FILT	NA	0.041	mg/L	C -
Arsenic	FILT	0.002	mg/L	C U	UNFI	NA	0.037	mg/L	C -	FILT	NA	0.002	mg/L	C U
Arsenic	FILT	NA	mg/L	C -	UNFI	NA	0.002	mg/L	C U	FILT	NA	0.005	mg/L	C U
Barium	FILT	0.038	mg/L	C -	UNFI	NA	89.900	mg/L	C J	FILT	NA	82.600	mg/L	C J
Barium	FILT	NA	mg/L	C -	UNFI	NA	89.900	mg/L	C J	FILT	NA	0.010	mg/L	C U
Beryllium	FILT	0.002	mg/L	C U	UNFI	NA	0.010	mg/L	C U	FILT	NA	0.010	mg/L	C U
Beryllium	FILT	NA	mg/L	C U	UNFI	NA	0.010	mg/L	C U	FILT	NA	0.010	mg/L	C U
Cadmium	FILT	0.005	mg/L	C U	UNFI	NA	0.005	mg/L	C U	FILT	NA	0.002	mg/L	C U
Cadmium	FILT	NA	mg/L	C U	UNFI	NA	0.004	mg/L	C -	UNFI	NA	0.023	mg/L	C -
Calcium	FILT	90.000	mg/L	C J	UNFI	NA	0.027	mg/L	C -	FILT	NA	0.000	mg/L	C U
Calcium	FILT	NA	mg/L	C J	UNFI	NA	0.000	mg/L	C U	FILT	NA	0.020	mg/L	C U
Chromium	FILT	0.010	mg/L	C U	UNFI	NA	0.020	mg/L	C U	FILT	NA	0.002	mg/L	C U
Chromium	FILT	NA	mg/L	C U	UNFI	NA	0.020	mg/L	C U	FILT	NA	0.002	mg/L	C U
Cobalt	FILT	0.010	mg/L	C U	UNFI	NA	0.010	mg/L	C U	FILT	NA	0.010	mg/L	C U
Cobalt	FILT	NA	mg/L	C U	UNFI	NA	0.010	mg/L	C U	FILT	NA	0.010	mg/L	C U
Copper	FILT	0.010	mg/L	C U	UNFI	NA	0.010	mg/L	C U	FILT	NA	0.010	mg/L	C U
Copper	FILT	NA	mg/L	C U	UNFI	NA	0.004	mg/L	C -	UNFI	NA	0.000	mg/L	C U
Cyanide	UNFI	0.002	mg/L	C UJ	UNFI	NA	0.004	mg/L	C -	FILT	NA	0.073	mg/L	C -
Iron	FILT	0.020	mg/L	C U	UNFI	NA	0.020	mg/L	C U	FILT	NA	0.002	mg/L	C U
Iron	FILT	NA	mg/L	C U	UNFI	NA	0.002	mg/L	C UJ	FILT	NA	24.800	mg/L	C J
Lead	FILT	0.002	mg/L	C U	UNFI	NA	0.002	mg/L	C UJ	FILT	NA	0.023	mg/L	C -
Lead	FILT	NA	mg/L	C U	UNFI	NA	0.002	mg/L	C UJ	FILT	NA	0.000	mg/L	C U
Magnesium	FILT	23.400	mg/L	C J	UNFI	NA	23.800	mg/L	C J	FILT	NA	0.020	mg/L	C U
Magnesium	FILT	NA	mg/L	C J	UNFI	NA	23.800	mg/L	C J	FILT	NA	1.830	mg/L	C -
Manganese	FILT	0.029	mg/L	C -	UNFI	NA	0.027	mg/L	C -	FILT	NA	0.002	mg/L	C U
Manganese	FILT	NA	mg/L	C -	UNFI	NA	0.027	mg/L	C -	FILT	NA	0.000	mg/L	C U
Mercury	FILT	0.000	mg/L	C U	UNFI	NA	0.000	mg/L	C U	FILT	NA	0.020	mg/L	C U
Mercury	FILT	NA	mg/L	C U	UNFI	NA	0.000	mg/L	C U	FILT	NA	0.002	mg/L	C U
Molybdenum	FILT	0.020	mg/L	C U	UNFI	NA	0.020	mg/L	C U	FILT	NA	0.002	mg/L	C U
Molybdenum	FILT	NA	mg/L	C U	UNFI	NA	0.020	mg/L	C U	FILT	NA	0.000	mg/L	C U
Nickel	FILT	0.020	mg/L	C U	UNFI	NA	0.020	mg/L	C U	FILT	NA	0.020	mg/L	C U
Nickel	FILT	NA	mg/L	C U	UNFI	NA	0.020	mg/L	C U	FILT	NA	0.000	mg/L	C U
Potassium	FILT	1.930	mg/L	C -	UNFI	NA	1.930	mg/L	C -	FILT	NA	5.760	mg/L	C -
Potassium	FILT	NA	mg/L	C -	UNFI	NA	1.930	mg/L	C -	FILT	NA	0.010	mg/L	C U
Selenium	FILT	0.002	mg/L	C UJ	UNFI	NA	0.002	mg/L	C UJ	FILT	NA	0.002	mg/L	C U
Selenium	FILT	NA	mg/L	C UJ	UNFI	NA	0.002	mg/L	C UJ	FILT	NA	0.000	mg/L	C U
Silicon	FILT	1.310	mg/L	C -	UNFI	NA	1.300	mg/L	C -	FILT	NA	0.010	mg/L	C U
Silicon	FILT	NA	mg/L	C -	UNFI	NA	1.300	mg/L	C -	FILT	NA	0.000	mg/L	C U
Silver	FILT	0.010	mg/L	C U	UNFI	NA	0.010	mg/L	C U	FILT	NA	0.010	mg/L	C U

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TABLE E-11
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SW-03				IFP-SW-04				IFP-SW-02						
SAMPLE NUMBER	111819				111820				111828						
SAMPLING DATE	04/21/93				04/21/93				04/26/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>															
Silver		NA				UNFI	0.010	mg/L	C	U		NA			
Sodium	FLTD	12.500	mg/L	C	J	UNFI	NA	mg/L	C	J	FLTD	2.720	mg/L	C	J
Sodium		NA				UNFI	12.800	mg/L	C	J		NA			
Thallium	FLTD	0.002	mg/L	C	UJ	UNFI	NA				FLTD	0.002	mg/L	C	UJ
Thallium		NA				UNFI	0.002	mg/L	C	UJ		NA			
Vanadium	FLTD	0.010	mg/L	C	U	UNFI	NA				FLTD	0.010	mg/L	C	U
Vanadium		NA				UNFI	0.010	mg/L	C	U		NA			
Zinc	FLTD	0.005	mg/L	C	U	UNFI	NA				FLTD	0.005	mg/L	C	U
Zinc		NA				UNFI	0.015	mg/L	C	-		NA			
<u>Volatile Organics</u>															
1,1,1-Trichloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,1,2,2-Tetrachloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,1,2-Trichloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,1-Dichloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,1-Dichloroethene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,2-Dichloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,2-Dichloroethene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,2-Dichloropropane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Butanone	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Hexanone	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	UJ
4-Methyl-2-pentanone	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U
Acetone	UNFI	26.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Bromodichloromethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Bromoform	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Bromomethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Carbon Tetrachloride	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Carbon disulfide	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Chlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Chloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Chloroform	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Chloromethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Dibromochloromethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Ethylbenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Methylene chloride	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	UJ
Styrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Tetrachloroethene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Toluene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	2.000	ug/L	C	J
Trichloroethene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Vinyl Acetate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U

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TABLE E-11
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SW-03				IFP-SW-04				IFP-SW-02						
SAMPLE NUMBER	111819				111820				111828						
SAMPLING DATE	04/21/93				04/21/93				04/26/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>															
Vinyl chloride	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	UJ
Xylenes, Total	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
cis-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
trans-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
<u>Semivolatile Organics</u>															
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,2-Dichlorobenzene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,3-Dichlorobenzene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,4-Dichlorobenzene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,4,5-Trichlorophenol	UNFI	25.000	ug/L	C	UJ	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U
2,4,6-Trichlorophenol	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,4-Dichlorophenol	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,4-Dimethylphenol	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,4-Dinitrophenol	UNFI	25.000	ug/L	C	R	UNFI	25.000	ug/L	C	R	UNFI	50.000	ug/L	C	R
2,4-Dinitrotoluene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	UJ
2,6-Dinitrotoluene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Benzyl-4-chlorophenol	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Chloronaphthalene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Chlorophenol	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Methylnaphthalene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Methylphenol	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Nitroaniline	UNFI	25.000	ug/L	C	UJ	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U
2-Nitrophenol	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
3,3'-Dichlorobenzidine	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
3-Nitroaniline	UNFI	25.000	ug/L	C	UJ	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U
4,6-Dinitro-2-methylphenol	UNFI	25.000	ug/L	C	R	UNFI	25.000	ug/L	C	R	UNFI	25.000	ug/L	C	R
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
4-Methylphenol	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
4-Nitroaniline	UNFI	25.000	ug/L	C	UJ	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U
4-Nitrophenol	UNFI	25.000	ug/L	C	UJ	UNFI	25.000	ug/L	C	UJ	UNFI	25.000	ug/L	C	UJ
Acenaphthene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Acenaphthylene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Anthracene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(a)anthracene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(a)pyrene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(b)fluoranthene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(g,h,i)perylene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(k)fluoranthene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U

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TABLE E-11
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SW-03				IFP-SW-04				IFP-SW-02						
SAMPLE NUMBER	111819				111820				111828						
SAMPLING DATE	04/21/93				04/21/93				04/26/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>															
Benzoic acid	UNFI	50.000	ug/L	C	R	UNFI	50.000	ug/L	C	R	UNFI	50.000	ug/L	C	R
Benzyl alcohol	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	UJ
Butyl benzyl phthalate	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Carbazole	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Chrysene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Di-n-butyl phthalate	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Di-n-octyl phthalate	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	UJ
Dibenzo(a,h)anthracene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Dibenzofuran	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Diethyl phthalate	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Dimethyl phthalate	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Fluoranthene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Fluorene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Hexachlorobenzene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Hexachlorobutadiene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Hexachlorocyclopentadiene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Hexachloroethane	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Indeno(1,2,3-cd)pyrene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Isophorone	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
N-Nitroso-d1-n-propylamine	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
N-Nitrosodimethylamine	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
N-Nitrosodiphenylamine	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Naphthalene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Nitrobenzene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Pentachlorophenol	UNFI	25.000	ug/L	C	UJ	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U
Phenanthrene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Phenol	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Pyrene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Tributyl phosphate	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
bis(2-Chloroethoxy)methane	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
bis(2-Chloroethyl)ether	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
bis(2-Chloroisopropyl) ether	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
bis(2-Ethylhexyl) phthalate	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	1.000	ug/L	C	J
p-Chloroaniline	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
<u>Pesticide Organics/PCBs</u>															
4,4'-DDD	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
4,4'-DDE	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
4,4'-DDT	UNFI	0.100	ug/L	C	UJ	UNFI	0.100	ug/L	C	UJ	UNFI	0.100	ug/L	C	U
Aldrin	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
Aroclor-1016	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	UJ

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TABLE E-11
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	IFP-SW-03 111819				IFP-SW-04 111820				IFP-SW-02 111828			
SAMPLING DATE	04/21/93				04/21/93				04/26/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Pesticide Organics/PCBs</u>												
Aroclor-1221	UNFI	2.000	ug/L	C U	UNFI	2.000	ug/L	C U	UNFI	2.000	ug/L	C UJ
Aroclor-1232	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	C UJ
Aroclor-1242	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	C UJ
Aroclor-1248	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	C UJ
Aroclor-1254	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	C UJ
Aroclor-1260	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	C UJ
Dieldrin	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U
Endosulfan II	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U
Endosulfan sulfate	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U
Endosulfan-I	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U
Endrin	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U
Endrin aldehyde	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U
Endrin ketone	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U
Heptachlor	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U
Heptachlor epoxide	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U
Methoxychlor	UNFI	0.500	ug/L	C U	UNFI	0.500	ug/L	C U	UNFI	0.500	ug/L	C U
Toxaphene	UNFI	5.000	ug/L	C U	UNFI	5.000	ug/L	C U	UNFI	5.000	ug/L	C UJ
alpha-BHC	UNFI	0.050	ug/L	C UJ	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C UJ
alpha-Chlordane	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U
beta-BHC	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C UJ
delta-BHC	UNFI	0.050	ug/L	C UJ	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C UJ
gamma-BHC (Lindane)	UNFI	0.050	ug/L	C UJ	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C UJ
gamma-Chlordane	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U
<u>General Chemistry</u>												
Alkalinity	UNFI	255.000	mg/L	B -	UNFI	227.000	mg/L	B J	UNFI	208.000	mg/L	B -
Ammonia	UNFI	0.100	mg/L	B U	UNFI	0.100	mg/L	B -	UNFI	0.130	mg/L	B -
Chloride	UNFI	25.720	mg/L	B -	UNFI	25.400	mg/L	B -	UNFI	2.330	mg/L	C -
Fluoride	UNFI	0.200	mg/L	B -	UNFI	0.190	mg/L	B -	UNFI	0.230	mg/L	B -
Nitrate	UNFI	1.750	mg/L	B R	UNFI	1.640	mg/L	B -	UNFI	0.140	mg/L	B -
Phenols	UNFI	0.010	mg/L	B U	UNFI	0.010	mg/L	B -	UNFI	0.010	mg/L	B U
Phosphorus	NA				UNFI	0.060	mg/L	B -	NA			
Sulfate	UNFI	62.900	mg/L	B -	UNFI	73.200	mg/L	B -	UNFI	67.000	mg/L	B -
Sulfide	UNFI	0.570	mg/L	B -	UNFI	0.500	mg/L	B -	UNFI	0.050	mg/L	B -
Total Kjeldahl Nitrogen	UNFI	0.210	mg/L	B -	UNFI	0.280	mg/L	B -	UNFI	0.900	mg/L	B -
Total Organic Carbon	UNFI	2.500	mg/L	B -	UNFI	3.000	mg/L	B -	UNFI	5.770	mg/L	B -
Total Organic Halides	UNFI	10.000	mg/L	B U	UNFI	0.010	mg/L	B -	UNFI	0.011	mg/L	B -
Total Organic Nitrogen	UNFI	0.210	mg/L	B -	UNFI	0.280	mg/L	B -	UNFI	0.770	mg/L	B -
Total Phosphorous	UNFI	0.030	mg/L	B -	NA				UNFI	0.190	mg/L	B -

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TABLE E-11
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	IFP-SW-04 112015				IFP-SW-02 112022				IFP-SW-03 112027			
SAMPLING DATE	04/29/93				04/30/93				05/01/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Inorganics</u>												
Aluminum	FILT	0.048	mg/L	C -	FILT	0.083	mg/L	D -	FILT	0.051	mg/L	C -
Antimony	FILT	0.001	mg/L	C UJ	FILT	0.002	mg/L	D UJ	FILT	0.002	mg/L	C UJ
Arsenic	FILT	0.001	mg/L	C UJ	FILT	0.001	mg/L	D C	FILT	0.001	mg/L	C UJ
Barium	FILT	0.042	mg/L	C UJ	FILT	0.066	mg/L	D C	FILT	0.042	mg/L	C UJ
Beryllium	FILT	0.002	mg/L	C UJ	FILT	0.002	mg/L	D C	FILT	0.002	mg/L	C UJ
Cadmium	FILT	0.002	mg/L	C UJ	FILT	0.002	mg/L	D C	FILT	0.002	mg/L	C UJ
Calcium	FILT	85.500	mg/L	C UJ	FILT	132.000	mg/L	D C	FILT	88.000	mg/L	C -
Chromium	FILT	0.004	mg/L	C UJ	FILT	0.004	mg/L	D C	FILT	0.004	mg/L	C UJ
Cobalt	FILT	0.003	mg/L	C UJ	FILT	0.003	mg/L	D C	FILT	0.003	mg/L	C UJ
Copper	FILT	0.002	mg/L	C UJ	FILT	0.002	mg/L	D C	FILT	0.002	mg/L	C UJ
Cyanide	UNFI	0.001	mg/L	C UJ	UNFI	0.001	mg/L	D R	UNFI	0.001	mg/L	C R
Iron	FILT	0.012	mg/L	C UJ	FILT	0.004	mg/L	D C	FILT	0.024	mg/L	C UJ
Lead	FILT	0.001	mg/L	C UJ	FILT	0.001	mg/L	D C	FILT	0.001	mg/L	C UJ
Magnesium	FILT	22.700	mg/L	C UJ	FILT	45.700	mg/L	D C	FILT	23.200	mg/L	C -
Manganese	FILT	0.017	mg/L	C UJ	FILT	0.013	mg/L	D C	FILT	0.017	mg/L	C -
Mercury	FILT	0.000	mg/L	C UJ	FILT	0.000	mg/L	D C	FILT	0.000	mg/L	C UJ
Molybdenum	FILT	0.003	mg/L	C UJ	FILT	0.003	mg/L	D C	FILT	0.003	mg/L	C UJ
Nickel	FILT	0.003	mg/L	C UJ	FILT	0.003	mg/L	D C	FILT	0.003	mg/L	C UJ
Potassium	FILT	1.800	mg/L	C UJ	FILT	1.740	mg/L	D C	FILT	1.780	mg/L	C UJ
Selenium	FILT	0.001	mg/L	C UJ	FILT	0.004	mg/L	D C	FILT	0.001	mg/L	C UJ
Silicon	FILT	1.660	mg/L	C UJ	FILT	7.040	mg/L	D C	FILT	1.080	mg/L	C UJ
Silver	FILT	0.002	mg/L	C UJ	FILT	0.002	mg/L	D C	FILT	0.002	mg/L	C UJ
Sodium	FILT	11.800	mg/L	C -	FILT	6.010	mg/L	D C	FILT	12.200	mg/L	C -
Thallium	FILT	0.001	mg/L	C UJ	FILT	0.001	mg/L	D C	FILT	0.001	mg/L	C UJ
Vanadium	FILT	0.007	mg/L	C UJ	FILT	0.010	mg/L	D C	FILT	0.007	mg/L	C UJ
Zinc	FILT	0.005	mg/L	C UJ	FILT	0.004	mg/L	D C	FILT	0.005	mg/L	C UJ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	D C	UNFI	10.000	ug/L	C UJ
1,1,2,2-Tetrachloroethane	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	D C	UNFI	10.000	ug/L	C UJ
1,1,2-Trichloroethane	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	D C	UNFI	10.000	ug/L	C UJ
1,1-Dichloroethane	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	D C	UNFI	10.000	ug/L	C UJ
1,1-Dichloroethene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	D C	UNFI	10.000	ug/L	C UJ
1,2-Dichloroethane	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	D C	UNFI	10.000	ug/L	C UJ
1,2-Dichloroethene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	D C	UNFI	10.000	ug/L	C UJ
1,2-Dichloropropane	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	D C	UNFI	10.000	ug/L	C UJ
2-Butanone	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	D C	UNFI	10.000	ug/L	C UJ
2-Hexanone	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	D C	UNFI	10.000	ug/L	C UJ
4-Methyl-2-pentanone	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	D C	UNFI	10.000	ug/L	C UJ
Acetone	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	D C	UNFI	10.000	ug/L	C UJ
Benzene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	D C	UNFI	10.000	ug/L	C UJ

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TABLE E-11
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SW-04				IFP-SW-02				IFP-SW-03						
SAMPLE NUMBER	112015				112022				112027						
SAMPLING DATE	04/29/93				04/30/93				05/01/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>															
Bromodichloromethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Bromoform	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Bromomethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Carbon Tetrachloride	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Carbon disulfide	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	C	UJ
Chlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Chloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	C	UJ
Chloroform	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	C	UJ
Chloromethane	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	C	UJ
Dibromochloromethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Ethylbenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Methylene chloride	UNFI	10.000	ug/L	C	U	UNFI	11.000	ug/L	D	UJ	UNFI	10.000	ug/L	C	UJ
Styrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Tetrachloroethene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Toluene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Trichloroethene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Vinyl Acetate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Vinyl chloride	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Xylenes, Total	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
cis-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
trans-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
<u>Semivolatile Organics</u>															
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
1,2-Dichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
1,3-Dichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
1,4-Dichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
2,4,5-Trichlorophenol	UNFI	25.000	ug/L	C	UJ	UNFI	25.000	ug/L	D	U	UNFI	25.000	ug/L	C	U
2,4,6-Trichlorophenol	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
2,4-Dichlorophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
2,4-Dimethylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
2,4-Dinitrophenol	UNFI	50.000	ug/L	C	UJ	UNFI	25.000	ug/L	D	R	UNFI	25.000	ug/L	C	R
2,4-Dinitrotoluene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
2,6-Dinitrotoluene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
2-Chloronaphthalene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
2-Chlorophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
2-Methylnaphthalene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
2-Methylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
2-Nitroaniline	UNFI	25.000	ug/L	C	UJ	UNFI	25.000	ug/L	D	U	UNFI	25.000	ug/L	C	U
2-Nitrophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
3,3'-Dichlorobenzidine	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U

TABLE E-11
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	IFP-SW-04				IFP-SW-02				IFP-SW-03						
SAMPLE NUMBER	112015				112022				112027						
SAMPLING DATE	04/29/93				04/30/93				05/01/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>															
3-Nitroaniline	UNFI	25.000	ug/L	C	UJ	UNFI	25.000	ug/L	D	U	UNFI	25.000	ug/L	C	U
4,6-Dinitro-2-methylphenol	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	D	R	UNFI	25.000	ug/L	C	R
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
4-Methylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
4-Nitroaniline	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	D	U	UNFI	25.000	ug/L	C	U
4-Nitrophenoil	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	D	R	UNFI	25.000	ug/L	C	R
Acenaphthene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Acenaphthylene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Anthracene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Benzo(a)anthracene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Benzo(a)pyrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Benzo(b)fluoranthene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Benzo(g,h,i)perylene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Benzo(k)fluoranthene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Benzoic acid	UNFI	50.000	ug/L	C	U	UNFI	50.000	ug/L	D	R	UNFI	50.000	ug/L	C	R
Benzyl alcohol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	C	U
Butyl benzyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	C	U
Carbazole	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Chrysene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Di-n-butyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Di-n-octyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R	UNFI	10.000	ug/L	C	R
Dibenz(a,h)anthracene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	C	U
Dibenzofuran	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Diethyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Dimethyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Fluoranthene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Fluorene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Hexachlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	C	U
Hexachlorobutadiene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Hexachlorocyclopentadiene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	C	U
Hexachloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Indeno(1,2,3-cd)pyrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	C	U
Isophorone	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
N-Nitroso-di-n-propylamine	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
N-Nitrosodiphenylamine	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Naphthalene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Nitrobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Pentachlorophenol	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	D	UJ	UNFI	25.000	ug/L	C	U
Phenanthrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U
Phenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U

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(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	IFP-SW-04 112015				IFP-SW-02 112022				IFP-SW-03 112027			
SAMPLING DATE	04/29/93				04/30/93				05/01/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Semivolatile Organics</u>												
Pyrene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	C U
bis(2-Chloroethoxy)methane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	C U
bis(2-Chloroethyl)ether	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	C U
bis(2-Chloroisopropyl) ether	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	C U
bis(2-Ethylhexyl) phthalate	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D UJ	UNFI	10.000	ug/L	C UJ
p-Chloroaniline	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	C U
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	D U	UNFI	0.100	ug/L	C U
4,4'-DDE	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	D U	UNFI	0.100	ug/L	C U
4,4'-DDT	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	D U	UNFI	0.100	ug/L	C U
Aldrin	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	D U	UNFI	0.050	ug/L	C U
Aroclor-1016	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	D U	UNFI	1.000	ug/L	C U
Aroclor-1221	UNFI	2.000	ug/L	C U	UNFI	2.000	ug/L	D U	UNFI	2.000	ug/L	C U
Aroclor-1232	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	D U	UNFI	1.000	ug/L	C U
Aroclor-1242	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	D U	UNFI	1.000	ug/L	C U
Aroclor-1248	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	D U	UNFI	1.000	ug/L	C U
Aroclor-1254	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	D U	UNFI	1.000	ug/L	C U
Aroclor-1260	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	D U	UNFI	1.000	ug/L	C U
Dieldrin	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	D U	UNFI	0.100	ug/L	C U
Endosulfan II	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	D U	UNFI	0.100	ug/L	C U
Endosulfan sulfate	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	D U	UNFI	0.100	ug/L	C U
Endosulfan-I	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	D U	UNFI	0.050	ug/L	C U
Endrin	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	D U	UNFI	0.100	ug/L	C U
Endrin aldehyde	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	D U	UNFI	0.100	ug/L	C U
Endrin ketone	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	D U	UNFI	0.100	ug/L	C U
Heptachlor	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	D U	UNFI	0.050	ug/L	C U
Heptachlor epoxide	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	D U	UNFI	0.050	ug/L	C U
Methoxychlor	UNFI	0.500	ug/L	C U	UNFI	0.500	ug/L	D U	UNFI	0.500	ug/L	C U
Toxaphene	UNFI	5.000	ug/L	C U	UNFI	5.000	ug/L	D U	UNFI	5.000	ug/L	C U
alpha-BHC	UNFI	0.050	ug/L	C UJ	UNFI	0.050	ug/L	D UJ	UNFI	0.050	ug/L	C UJ
alpha-Chlordane	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	D U	UNFI	0.050	ug/L	C U
beta-BHC	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	D U	UNFI	0.050	ug/L	C U
delta-BHC	UNFI	0.050	ug/L	C UJ	UNFI	0.050	ug/L	D UJ	UNFI	0.050	ug/L	C UJ
gamma-BHC (Lindane)	UNFI	0.050	ug/L	C UJ	UNFI	0.050	ug/L	D UJ	UNFI	0.050	ug/L	C UJ
gamma-Chlordane	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	D U	UNFI	0.050	ug/L	C U
<u>General Chemistry</u>												
Alkalinity	UNFI	245.000	mg/L	B -	UNFI	395.000	mg/L	B -	UNFI	195.000	mg/L	B -
Ammonia		NA			UNFI	0.100	mg/L	B U	UNFI	0.100	mg/L	B U

TABLE E-11
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	IFP-SW-04 112015				IFP-SW-02 112022				IFP-SW-03 112027			
SAMPLING DATE	04/29/93				04/30/93				05/01/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>General Chemistry</u>												
Chloride	UNFI	23.600	mg/L	B -	UNFI	4.630	mg/L	B -	UNFI	23.650	mg/L	B -
Fluoride	UNFI	0.210	mg/L	B -	UNFI	0.390	mg/L	B -	UNFI	0.210	mg/L	B -
Nitrate	UNFI	1.570	mg/L	B J	UNFI	0.100	mg/L	B R	UNFI	1.490	mg/L	B R
Phenols	UNFI	0.010	mg/L	B U	UNFI	0.010	mg/L	B U	UNFI	0.010	mg/L	B U
Phosphorus	UNFI	0.050	mg/L	B -		NA				NA		
Sulfate	UNFI	66.700	mg/L	B -	UNFI	133.900	mg/L	B -	UNFI	77.400	mg/L	B -
Sulfide	UNFI	0.500	mg/L	B U	UNFI	0.500	mg/L	B U	UNFI	0.500	mg/L	B U
Total Kjeldahl Nitrogen	UNFI	0.430	mg/L	B -	UNFI	0.180	mg/L	B -	UNFI	0.320	mg/L	B -
Total Organic Carbon	UNFI	2.290	mg/L	B -	UNFI	2.140	mg/L	B -	UNFI	1.980	mg/L	B -
Total Organic Halides	UNFI	10.000	mg/L	B U	UNFI	0.010	mg/L	B U	UNFI	0.010	mg/L	B U
Total Organic Nitrogen	UNFI	0.430	mg/L	B -	UNFI	0.180	mg/L	B -	UNFI	0.320	mg/L	B U
Total Phosphorous		NA			UNFI	0.180	mg/L	B -	UNFI	0.200	mg/L	B -

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11-000

TABLE E-12

TABLE E-12A
INACTIVE FLYASH PILE
RI/FS GROUNDWATER RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1016 003062			1016 003906			1016 066819					
SAMPLING DATE	03/28/88			02/26/89			12/13/89					
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R		NA		
NP-237	*U	1.000	pCi/L	R	*U	1.000	pCi/L	U		NA		
PU-238	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U		NA		
PU-239/240	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U		NA		
RA-226	*U	1.000	pCi/L	R	*U	1.000	pCi/L	UJ		NA		
RA-228	*U	3.000	pCi/L	UJ	*U	3.000	pCi/L	UJ		NA		
RU-106	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R		NA		
SR-90	*U	5.000	pCi/L	R	*U	5.000	pCi/L	U		NA		
TC-99	*U	30.000	pCi/L	UJ	*U	30.000	pCi/L	UJ		NA		
TC-99	NA				NA				UNKN	30.000	pCi/L	U
TH-228	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U		NA		
TH-228	NA				NA				UNKN	1.000	pCi/L	U
TH-230	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U		NA		
TH-230	NA				NA				UNKN	1.180	pCi/L	J
TH-232	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U		NA		
TH-TOTAL	NA				*U	3.000	ug/L	U		NA		
U-234	*U	1.000	pCi/L	UJ	*U	2.500	pCi/L	-		NA		
U-234	NA				NA				UNKN	1.000	pCi/L	U
U-235	NA				NA				UNKN	1.000	pCi/L	U
U-235/236	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U		NA		
U-238	*U	1.000	pCi/L	UJ	*U	2.600	pCi/L	-		NA		
U-238	NA				NA				UNKN	1.000	pCi/L	U
U-TOTAL	*U	1.000	ug/L	R	*U	9.000	ug/L	J		NA		
U-TOTAL	NA				NA				UNKN	2.030	ug/L	-

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TABLE E-12A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1047 003102				1047 003369				1047 003648			
SAMPLING DATE	04/20/88				07/24/88				10/23/88			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R	UNKN	NA	pCi/L	R
CS-137		NA				NA				NA		
NP-237	*U	1.000	pCi/L	R	*U	1.000	pCi/L	UJ	UNKN	NA	pCi/L	UJ
NP-237		NA				NA				NA		
PU-238	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ	UNKN	NA	pCi/L	UJ
PU-238		NA				NA				NA		
PU-239/240	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ	UNKN	NA	pCi/L	UJ
PU-239/240		NA				NA				NA		
RA-226	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U	UNKN	NA	pCi/L	UJ
RA-226		NA				NA				NA		
RA-228	*U	3.000	pCi/L	UJ	*U	3.000	pCi/L	U	UNKN	NA	pCi/L	U
RA-228		NA				NA				NA		
RU-106	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R	UNKN	NA	pCi/L	R
RU-106		NA				NA				NA		
SR-90	*U	5.000	pCi/L	U	*U	5.000	pCi/L	U	UNKN	NA	pCi/L	U
SR-90		NA				NA				NA		
TC-99	*U	30.000	pCi/L	U	*U	30.000	pCi/L	U	UNKN	NA	pCi/L	U
TC-99		NA				NA				NA		
TH-228	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ	UNKN	NA	pCi/L	-
TH-228		NA				NA				NA		
TH-230	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ	UNKN	NA	pCi/L	-
TH-230		NA				NA				NA		
TH-232	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ	UNKN	NA	pCi/L	J
TH-232		NA				NA				NA		
TH-TOTAL					*U	5.000	ug/L	J	UNKN	NA	ug/L	-
TH-TOTAL						NA				NA		
U-234	*U	3.700	pCi/L	J	*U	7.400	pCi/L	J	UNKN	10.000	ug/L	-
U-234		NA				NA				NA		
U-235/236	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ	UNKN	NA	pCi/L	UJ
U-235/236		NA				NA				NA		
U-238	*U	2.500	pCi/L	J	*U	3.200	pCi/L	J	UNKN	NA	pCi/L	UJ
U-238		NA				NA				NA		
U-TOTAL	*U	6.000	ug/L	R	*U	9.000	ug/L	-	UNKN	NA	pCi/L	J
										NA		

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000213

TABLE E-12A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1047 003855				1047 066830				2016 003063			
SAMPLING DATE	01/22/89				12/12/89				03/28/88			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R		NA			*U	20.000	pCi/L	R
NP-237	*U	1.000	pCi/L	U		NA			*U	1.000	pCi/L	R
PU-238	*U	1.000	pCi/L	UJ		NA			*U	1.000	pCi/L	UJ
PU-239/240	*U	1.000	pCi/L	UJ		NA			*U	1.000	pCi/L	UJ
RA-226	*U	1.000	pCi/L	U		NA			*U	1.000	pCi/L	R
RA-228	*U	3.400	pCi/L	UJ		NA			*U	3.000	pCi/L	UJ
RU-106	*U	150.000	pCi/L	R		NA			*U	150.000	pCi/L	R
SR-90	*U	5.000	pCi/L	U		NA			*U	5.000	pCi/L	R
TC-99	*U	30.000	pCi/L	U		NA			*U	30.000	pCi/L	UJ
TC-99		NA			UNKN	30.000	pCi/L	U		NA		
TH-228	*U	1.000	pCi/L	U		NA			*U	1.000	pCi/L	UJ
TH-228		NA			UNKN	1.000	pCi/L	U		NA		
TH-230	*U	1.000	pCi/L	U		NA			*U	1.000	pCi/L	UJ
TH-230		NA			UNKN	1.000	pCi/L	U		NA		
TH-232	*U	1.000	pCi/L	U		NA			*U	1.000	pCi/L	UJ
TH-TOTAL	*U	3.000	ug/L	U		NA			*U	NA		
U-234	*U	3.700	pCi/L	-		NA			*U	7.700	pCi/L	J
U-234		NA			UNKN	3.990	pCi/L	-		NA		
U-235		NA			UNKN	1.000	pCi/L	-		NA		
U-235/236	*U	1.000	pCi/L	U		NA			*U	1.000	pCi/L	UJ
U-238	*U	2.100	pCi/L	-		NA			*U	6.200	pCi/L	J
U-238		NA			UNKN	2.810	pCi/L	-		NA		
U-TOTAL	*U	6.000	ug/L	-		NA			*U	21.000	ug/L	R
U-TOTAL		NA			UNKN	10.300	ug/L	-		NA		

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TABLE E-12A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2016 003434			2016 003685			2016 003883					
SAMPLING DATE	08/03/88			11/04/88			02/07/89					
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137		20.000	pCi/L	R		20.000	pCi/L	R		20.000	pCi/L	R
NP-237		1.000	pCi/L	U		1.000	pCi/L	U		1.000	pCi/L	U
PU-238		1.000	pCi/L	U		1.000	pCi/L	U		1.000	pCi/L	U
PU-239/240		1.000	pCi/L	U		1.000	pCi/L	U		1.000	pCi/L	U
RA-226		1.000	pCi/L	U		1.000	pCi/L	U		1.000	pCi/L	U
RA-228		3.000	pCi/L	U		3.000	pCi/L	U		3.200	pCi/L	U
RU-106		150.000	pCi/L	R		150.000	pCi/L	R		150.000	pCi/L	R
SR-90		5.000	pCi/L	U		5.000	pCi/L	U		5.000	pCi/L	U
TC-99		30.000	pCi/L	U		30.000	pCi/L	U		30.000	pCi/L	U
TH-228		1.000	pCi/L	U		1.000	pCi/L	U		1.000	pCi/L	U
TH-230		1.000	pCi/L	U		1.000	pCi/L	U		1.000	pCi/L	U
TH-232		1.000	pCi/L	U		1.000	pCi/L	U		1.000	pCi/L	U
TH-TOTAL		2.000	ug/L	U		2.000	ug/L	U		3.000	ug/L	U
U-234		5.300	pCi/L	U		4.600	pCi/L	U		6.600	pCi/L	U
U-235/236		1.000	pCi/L	U		1.000	pCi/L	U		1.000	pCi/L	U
U-238		6.400	pCi/L	U		5.600	pCi/L	U		8.000	pCi/L	U
U-TOTAL		18.000	ug/L	U		17.000	ug/L	U		22.000	ug/L	U

TABLE E-12A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2016 004152				2016 004213				2047 003998			
SAMPLING DATE	07/26/89				03/04/90				01/22/89			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137		NA			*U	20.000	pc1/L	R	*U	20.000	pc1/L	R
CS-137	UNKN	20.000	pc1/L	UJ	*U	NA			*U	NA		
NP-237		NA			*U	1.000	pc1/L	U	*U	1.000	pc1/L	U
NP-237	UNKN	1.000	pc1/L	U	*U	NA			*U	NA		
PU-238		NA			*U	1.000	pc1/L	U	*U	1.000	pc1/L	UJ
PU-238	UNKN	1.000	pc1/L	U	*U	NA			*U	NA		
PU-239/240		NA			*U	1.000	pc1/L	U	*U	1.000	pc1/L	UJ
PU-239/240	UNKN	1.000	pc1/L	U	*U	NA			*U	NA		
RA-226		NA			*U	1.000	pc1/L	NV	*U	1.000	pc1/L	U
RA-226	UNKN	1.000	pc1/L	UJ	*U	NA			*U	NA		
RA-228		NA			*U	3.000	pc1/L	U	*U	3.200	pc1/L	UJ
RA-228	UNKN	3.000	pc1/L	U	*U	NA			*U	NA		
RU-106		NA			*U	150.000	pc1/L	R	*U	150.000	pc1/L	R
RU-106	UNKN	150.000	pc1/L	UJ	*U	NA			*U	NA		
SR-90		NA			*U	5.000	pc1/L	U	*U	5.000	pc1/L	U
SR-90	UNKN	5.000	pc1/L	U	*U	NA			*U	NA		
TC-99		NA			*U	30.000	pc1/L	U	*U	30.000	pc1/L	U
TC-99	UNKN	30.000	pc1/L	U	*U	NA			*U	NA		
TH-228		NA			*U	1.000	pc1/L	U	*U	1.000	pc1/L	U
TH-228	UNKN	1.000	pc1/L	UJ	*U	NA			*U	NA		
TH-230		NA			*U	1.000	pc1/L	U	*U	1.000	pc1/L	U
TH-230	UNKN	1.000	pc1/L	UJ	*U	NA			*U	NA		
TH-232		NA			*U	1.000	pc1/L	U	*U	1.000	pc1/L	U
TH-232	UNKN	1.000	pc1/L	UJ	*U	NA			*U	NA		
TH-TOTAL		NA			*U	1.940	ug/L	U	*U	4.000	ug/L	U
TH-TOTAL	UNKN	2.000	ug/L	UJ	*U	NA			*U	NA		
U-234		NA			*U	4.280	pc1/L	-	*U	5.100	pc1/L	-
U-234	UNKN	5.100	pc1/L	-	*U	NA			*U	NA		
U-235/236		NA			*U	1.000	pc1/L	U	*U	1.000	pc1/L	U
U-235/236	UNKN	1.000	pc1/L	U	*U	NA			*U	NA		
U-238		NA			*U	5.030	pc1/L	-	*U	4.500	pc1/L	-
U-238	UNKN	5.800	pc1/L	-	*U	NA			*U	NA		
U-TOTAL		NA			*U	29.400	ug/L	J	*U	15.000	ug/L	-
U-TOTAL	UNKN	17.000	ug/L	-	*U	NA			*U	NA		

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TABLE E-12A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2047 004093				2047 004160				2047 004220				
SAMPLING DATE	05/02/89				07/28/89				04/03/90				
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	
CS-137	*U	20.000	pCi/L	R	*U	20.000	pCi/L	UJ	UNKN	NA	20.000	pCi/L	R
CS-137		NA				NA				NA			
NP-237	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
NP-237		NA				NA				NA			
PU-238	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
PU-238		NA				NA				NA			
PU-239/240	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
PU-239/240		NA				NA				NA			
RA-226	*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ	UNKN	NA	1.000	pCi/L	U
RA-226		NA				NA				NA			
RA-228	*U	3.000	pCi/L	UJ	*U	3.000	pCi/L	U	UNKN	NA	1.000	pCi/L	UJ
RA-228		NA				NA				NA			
RU-106	*U	150.000	pCi/L	R	*U	150.000	pCi/L	UJ	UNKN	NA	150.000	pCi/L	R
RU-106		NA				NA				NA			
SR-90	*U	5.000	pCi/L	U	*U	5.000	pCi/L	U	UNKN	NA	5.000	pCi/L	R
SR-90		NA				NA				NA			
TC-99	*U	30.000	pCi/L	U	*U	30.000	pCi/L	U	UNKN	NA	30.000	pCi/L	R
TC-99		NA				NA				NA			
TH-228	*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ	UNKN	NA	1.000	pCi/L	R
TH-228		NA				NA				NA			
TH-230	*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ	UNKN	NA	1.090	pCi/L	R
TH-230		NA				NA				NA			
TH-232	*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ	UNKN	NA	1.000	pCi/L	R
TH-232		NA				NA				NA			
TH-TOTAL	*U	5.000	ug/L	U	*U	4.000	ug/L	UJ	UNKN	NA	1.900	ug/L	R
TH-TOTAL		NA				NA				NA			
U-234	*U	3.200	pCi/L	-	*U	3.700	pCi/L	-	UNKN	NA	4.720	pCi/L	J
U-234		NA				NA				NA			
U-235/236	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	UJ
U-235/236		NA				NA				NA			
U-238	*U	3.400	pCi/L	-	*U	3.800	pCi/L	-	UNKN	NA	4.660	pCi/L	J
U-238		NA				NA				NA			
U-TOTAL	*U	10.000	ug/L	-	*U	9.000	ug/L	-	UNKN	NA	13.800	ug/L	-
U-TOTAL		NA				NA				NA			

TABLE E-12A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	2402				3016			
SAMPLE NUMBER	038304				003082			
SAMPLING DATE	01/28/92				04/08/88			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD			
CS-137		NA			*U			
CS-137	UNKN	20.000	pCi/L	U		20.000	pCi/L	R
GROSS ALPHA	U	9.610	pCi/L	NV		NA		
GROSS BETA	UNKN	8.560	pCi/L	NV		NA		
NP-237		NA			*U	1.000	pCi/L	UJ
PU-238		NA			*U	1.000	pCi/L	UJ
PU-238	UNKN	1.000	pCi/L	U		NA		
PU-239/240		NA			*U	1.000	pCi/L	UJ
PU-239/240	UNKN	1.000	pCi/L	U		NA		
RA-226		NA			*U	1.000	pCi/L	R
RA-228		NA			*U	3.000	pCi/L	U
RA-228	UNKN	3.000	pCi/L	U		NA		
RU-106		NA			*U	150.000	pCi/L	R
RU-106	UNKN	150.000	pCi/L	U		NA		
SR-90		NA			*U	5.000	pCi/L	U
SR-90	U	5.000	pCi/L	U		NA		
TC-99		NA			*U	30.000	pCi/L	U
TC-99	UNKN	30.000	pCi/L	UJ		NA		
TH-228		NA			*U	1.400	pCi/L	J
TH-228	U	1.000	pCi/L	U		NA		
TH-230		NA			*U	1.000	pCi/L	UJ
TH-230	UNKN	1.000	pCi/L	U		NA		
TH-232		NA			*U	1.000	pCi/L	UJ
TH-232	UNKN	1.000	pCi/L	U		NA		
TH-TOTAL	UNKN	1.200	ug/L	U		NA		
U-234		NA			*U	5.300	pCi/L	J
U-234	U	7.730	pCi/L	-		NA		
U-235/236		NA			*U	1.000	pCi/L	UJ
U-235/236	UNKN	1.000	pCi/L	U		NA		
U-238		NA			*U	4.400	pCi/L	J
U-238	UNKN	9.970	pCi/L	-		NA		
U-TOTAL		NA			*U	11.000	ug/L	J
U-TOTAL	UNKN	27.300	ug/L	-		NA		

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0000218

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TABLE E-12A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	3016 003435				3016 003686				3016 003882			
SAMPLING DATE	08/03/88				11/04/88				02/07/89			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R
NP-237	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
PU-238	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U
PU-239/240	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U
RA-226	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
RA-228	*U	3.000	pCi/L	UJ	*U	3.000	pCi/L	UJ	*U	3.100	pCi/L	U
RU-106	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R
SR-90	*U	5.000	pCi/L	U	*U	5.000	pCi/L	U	*U	5.000	pCi/L	U
TC-99	*U	30.000	pCi/L	U	*U	30.000	pCi/L	U	*U	30.000	pCi/L	U
TH-228	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
TH-230	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
TH-232	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
TH-TOTAL	*U	3.000	ug/L	UJ	*U	2.000	ug/L	-	*U	3.000	ug/L	U
U-234	*U	3.300	pCi/L	J	*U	3.300	pCi/L	-	*U	3.300	pCi/L	-
U-235/236	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	-	*U	1.000	pCi/L	U
U-238	*U	3.500	pCi/L	J	*U	3.200	pCi/L	-	*U	2.900	pCi/L	-
U-TOTAL	*U	9.000	ug/L	-	*U	8.000	ug/L	-	*U	7.000	ug/L	J

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000219

TABLE E-12A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	3016 004241			
SAMPLING DATE	03/04/90			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R
NP-237	*C	1.000	pCi/L	U
PU-238	*C	1.000	pCi/L	U
PU-239/240	*C	1.000	pCi/L	U
RA-226	*C	1.000	pCi/L	NV
RA-228	*C	3.000	pCi/L	U
RU-106	*C	150.000	pCi/L	R
SR-90	*C	5.000	pCi/L	U
TC-99	*C	30.000	pCi/L	U
TH-228	*C	1.000	pCi/L	U
TH-230	*C	1.000	pCi/L	U
TH-232	*C	1.000	pCi/L	U
TH-TOTAL		1.430	ug/L	C
U-234	*C	3.050	pCi/L	C
U-235/236	*C	1.000	pCi/L	C
U-238	*C	2.800	pCi/L	C
U-TOTAL		13.400	ug/L	C

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000220

TABLE E-12A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	4016 004090				4016 066867			
SAMPLING DATE	05/01/89				12/12/89			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R		NA		
NP-237	*U	1.000	pCi/L	U		NA		
PU-238	*U	1.000	pCi/L	U		NA		
PU-239/240	*U	1.000	pCi/L	U		NA		
RA-226	*U	1.000	pCi/L	U		NA		
RA-228	*U	3.000	pCi/L	J		NA		
RU-106	*U	150.000	pCi/L	R		NA		
SR-90	*U	5.000	pCi/L	U		NA		
TC-99	*U	30.000	pCi/L	U		NA		
TC-99		NA			UNKN	30.000	pCi/L	U
TH-228	*U	1.000	pCi/L	U		NA		
TH-228		NA			UNKN	1.000	pCi/L	U
TH-230	*U	1.000	pCi/L	U		NA		
TH-230		NA			UNKN	1.430	pCi/L	J
TH-232	*U	1.000	pCi/L	U		NA		
TH-TOTAL	*U	2.000	ug/L	U		NA		
U-234	*U	1.000	pCi/L	U		NA		
U-234		NA			UNKN	1.000	pCi/L	U
U-235		NA			UNKN	1.000	pCi/L	U
U-235/236	*U	1.000	pCi/L	U		NA		
U-238	*U	1.000	pCi/L	U		NA		
U-238		NA			UNKN	1.000	pCi/L	U
U-TOTAL	*U	1.000	ug/L	U		NA		
U-TOTAL		NA			UNKN	1.000	ug/L	U

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000221

TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1016	1016	1016						
SAMPLE NUMBER	003062	003906	004060						
SAMPLING DATE	03/28/88	02/26/89	03/29/89						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ
<u>Inorganics</u>									
Aluminum	FILT	0.040	mg/L C U		NA			NA	
Antimony	FILT	0.030	mg/L C U		NA			NA	
Arsenic		NA		FILT	0.003	mg/L C U		NA	
Arsenic	U	0.030	mg/L C U		NA			NA	
Arsenic	UNKN	0.002	mg/L C U		NA			NA	
Barium		NA		FILT	0.059	mg/L C -		NA	
Barium	UNKN	0.063	mg/L C -		NA			NA	
Beryllium	FILT	0.001	mg/L C U		NA			NA	
Cadmium		NA		FILT	0.005	mg/L C U		NA	
Cadmium	UNKN	0.005	mg/L C U		NA			NA	
Calcium		NA		FILT	180.000	mg/L C -		NA	
Calcium	UNKN	19.200	mg/L C -		NA			NA	
Chromium		NA		FILT	0.030	mg/L C -		NA	
Chromium	U	0.010	mg/L C U		NA			NA	
Chromium	UNKN	0.010	mg/L C U		NA			NA	
Cobalt	FILT	0.020	mg/L C U		NA			NA	
Copper		NA		FILT	0.010	mg/L C U		NA	
Copper	UNKN	0.010	mg/L C UJ		NA			NA	
Cyanide	UNKN	0.010	mg/L C U		NA			NA	
Iron		NA		FILT	0.090	mg/L C -		NA	
Iron	UNKN	2.500	mg/L C -		NA			NA	
Lead		NA		FILT	0.002	mg/L C U		NA	
Lead	UNKN	0.002	mg/L C U		NA			NA	
Magnesium		NA		FILT	31.000	mg/L C -		NA	
Magnesium	U	29.100	mg/L C -		NA			NA	
Magnesium	UNKN	37.900	mg/L C -		NA			NA	
Manganese		NA		FILT	0.005	mg/L C U		NA	
Manganese	UNKN	0.005	mg/L C -		NA			NA	
Mercury		NA		FILT	0.000	mg/L C J		NA	
Mercury	UNKN	0.001	mg/L C UJ		NA			NA	
Molybdenum	FILT	0.010	mg/L C U		FILT	0.010	mg/L C U		NA
Nickel		NA		FILT	0.030	mg/L C U		NA	
Nickel	UNKN	0.020	mg/L C U		NA			NA	
Potassium		NA		FILT	1.500	mg/L C -		NA	
Potassium	UNKN	1.110	mg/L C U		NA			NA	
Selenium		NA		FILT	0.005	mg/L C -		NA	
Selenium	UNKN	0.004	mg/L C -		NA			NA	
Silver		NA		FILT	0.010	mg/L C U		NA	
Silver	U	0.005	mg/L C U		NA			NA	
Silver	UNKN	0.005	mg/L C U		NA			NA	
Sodium		NA		FILT	5.400	mg/L C -		NA	
Sodium	UNKN	4.100	mg/L C -		NA			NA	

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TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1016 003062			1016 003906			1016 004060								
SAMPLE NUMBER	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>															
Thallium	FILT	0.003	mg/L	C	U		NA					NA			
Vanadium	FILT	0.010	mg/L	C	U		NA					NA			
Zinc	FILT	0.027	mg/L	C	-		NA					NA			
<u>Volatile Organics</u>															
1,1,1-Trichloroethane	UNFI	2.000	ug/L	C	J		NA					NA			
1,1,2,2-Tetrachloroethane	UNFI	5.000	ug/L	C	J		NA					NA			
1,1,2-Trichloroethane	UNKN	5.000	ug/L	C	J		NA					NA			
1,1-Dichloroethane	UNFI	5.000	ug/L	C	J		NA					NA			
1,1-Dichloroethene	UNFI	5.000	ug/L	C	J		NA					NA			
1,2-Dichloroethane	UNFI	5.000	ug/L	C	J		NA					NA			
1,2-Dichloropropane	UNFI	5.000	ug/L	C	J		NA					NA			
2-Butanone	UNFI	10.000	ug/L	C	J		NA					NA			
2-Mexanone	UNFI	10.000	ug/L	C	J		NA					NA			
4-Methyl-2-pentanone	UNFI	10.000	ug/L	C	J		NA					NA			
Acetone	UNFI	10.000	ug/L	C	J		NA					NA			
Benzene	UNFI	5.000	ug/L	C	J		NA					NA			
Bromodichloromethane	UNFI	5.000	ug/L	C	J		NA					NA			
Bromoform	UNFI	5.000	ug/L	C	J		NA					NA			
Bromomethane	UNFI	10.000	ug/L	C	J		NA					NA			
Carbon Tetrachloride	UNFI	5.000	ug/L	C	J		NA					NA			
Carbon disulfide	UNFI	5.000	ug/L	C	J		NA					NA			
Chlorobenzene	UNFI	5.000	ug/L	C	J		NA					NA			
Chloroethane	UNFI	10.000	ug/L	C	J		NA					NA			
Chloroform	UNFI	5.000	ug/L	C	J		NA					NA			
Chloromethane	UNFI	10.000	ug/L	C	J		NA					NA			
Dibromochloromethane	UNFI	5.000	ug/L	C	J		NA					NA			
Ethylbenzene	UNFI	5.000	ug/L	C	J		NA					NA			
Methylene chloride	UNFI	5.000	ug/L	C	J		NA					NA			
Styrene	UNFI	5.000	ug/L	C	J		NA					NA			
Tetrachloroethene	UNFI	5.000	ug/L	C	J		NA					NA			
Toluene	UNFI	5.000	ug/L	C	J		NA					NA			
Trichloroethene	UNFI	5.000	ug/L	C	J		NA					NA			
Vinyl Acetate	UNFI	10.000	ug/L	C	J		NA					NA			
Vinyl chloride	UNFI	10.000	ug/L	C	J		NA					NA			
Kylenes, Total	UNKN	5.000	ug/L	C	J		NA					NA			
cis-1,3-Dichloropropene	UNFI	5.000	ug/L	C	J		NA					NA			
trans-1,3-Dichloropropene	UNFI	5.000	ug/L	C	J		NA					NA			
<u>Semivolatile Organics</u>															
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L	C	U		NA					NA			

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000223

TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1016 003062	1016 003906	1016 004060						
SAMPLING DATE	03/28/88	02/26/89	03/29/89						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ
Semivolatile Organics									
1,2-Dichlorobenzene	UNKN	10.000	ug/L C U		NA			NA	
1,3-Dichlorobenzene	UNFI	10.000	ug/L C U		NA			NA	
1,4-Dichlorobenzene	UNFI	10.000	ug/L C U		NA			NA	
2,4,5-Trichlorophenol	UNFI	50.000	ug/L C U		NA			NA	
2,4,6-Trichlorophenol	UNFI	10.000	ug/L C U		NA			NA	
2,4-Dichlorophenol	UNFI	10.000	ug/L C U		NA			NA	
2,4-Dimethylphenol	UNFI	10.000	ug/L C U		NA			NA	
2,4-Dinitrophenol	UNFI	50.000	ug/L C U		NA			NA	
2,4-Dinitrotoluene	UNFI	10.000	ug/L C U		NA			NA	
2,6-Dinitrotoluene	UNFI	10.000	ug/L C U		NA			NA	
2-Chloronaphthalene	UNKN	10.000	ug/L C U		NA			NA	
2-Chlorophenol	UNFI	10.000	ug/L C U		NA			NA	
2-Methylnaphthalene	UNFI	10.000	ug/L C U		NA			NA	
2-Methylphenol	UNFI	10.000	ug/L C U		NA			NA	
2-Nitroaniline	UNKN	50.000	ug/L C U		NA			NA	
2-Nitrophenol	UNFI	10.000	ug/L C U		NA			NA	
3,3'-Dichlorobenzidine	UNFI	20.000	ug/L C U		NA			NA	
3-Nitroaniline	UNFI	50.000	ug/L C U		NA			NA	
4,6-Dinitro-2-methylphenol	UNFI	50.000	ug/L C U		NA			NA	
4-Bromophenyl phenyl ether	UNKN	10.000	ug/L C U		NA			NA	
4-Chloro-3-methylphenol	UNFI	10.000	ug/L C U		NA			NA	
4-Chlorophenylphenyl ether	UNKN	10.000	ug/L C U		NA			NA	
4-Methylphenol	UNKN	10.000	ug/L C U		NA			NA	
4-Nitroaniline	UNFI	50.000	ug/L C U		NA			NA	
4-Nitrophenol	UNFI	50.000	ug/L C U		NA			NA	
Acenaphthene	UNFI	10.000	ug/L C U		NA			NA	
Acenaphthylene	UNFI	10.000	ug/L C U		NA			NA	
Anthracene	UNFI	10.000	ug/L C U		NA			NA	
Benzo(a)anthracene	UNFI	10.000	ug/L C U		NA			NA	
Benzo(a)pyrene	UNFI	10.000	ug/L C U		NA			NA	
Benzo(b)fluoranthene	UNKN	10.000	ug/L C U		NA			NA	
Benzo(g,h,i)perylene	UNFI	10.000	ug/L C U		NA			NA	
Benzo(k)fluoranthene	UNFI	10.000	ug/L C U		NA			NA	
Benzoic acid	UNFI	50.000	ug/L C U		NA			NA	
Benzyl alcohol	UNKN	10.000	ug/L C U		NA			NA	
Butyl benzyl phthalate	UNFI	10.000	ug/L C U		NA			NA	
Chrysene	UNKN	10.000	ug/L C U		NA			NA	
Di-n-butyl phthalate	UNFI	10.000	ug/L C U		NA			NA	
Di-n-octyl phthalate	UNFI	10.000	ug/L C U		NA			NA	
Dibenzo(a,h)anthracene	UNFI	10.000	ug/L C U		NA			NA	
Dibenzofuran	UNKN	10.000	ug/L C U		NA			NA	
Diethyl phthalate	UNFI	10.000	ug/L C U		NA			NA	

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000224

TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1016 003062				1016 003906				1016 004060							
SAMPLING DATE	03/28/88				02/26/89				03/29/89							
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Semivolatile Organics</u>																
Dimethyl phthalate	UNFI	10.000	ug/L	C	U		NA					NA				
Fluoranthene	UNFI	10.000	ug/L	C	U		NA					NA				
Fluorene	UNFI	10.000	ug/L	C	U		NA					NA				
Hexachlorobenzene	UNFI	10.000	ug/L	C	U		NA					NA				
Hexachlorobutadiene	UNFI	10.000	ug/L	C	U		NA					NA				
Hexachlorocyclopentadiene	UNFI	10.000	ug/L	C	U		NA					NA				
Hexachloroethane	UNKN	10.000	ug/L	C	U		NA					NA				
Indeno(1,2,3-cd)pyrene	UNFI	10.000	ug/L	C	U		NA					NA				
Isophorone	UNFI	10.000	ug/L	C	U		NA					NA				
Methyl parathion	NA						NA					UNFI	0.200	ug/L	C	U
N-Nitroso-di-n-propylamine	UNFI	10.000	ug/L	C	U		NA					NA				
N-Nitrosodiphenylamine	UNFI	10.000	ug/L	C	U		NA					NA				
Naphthalene	UNFI	10.000	ug/L	C	U		NA					NA				
Nitrobenzene	UNFI	10.000	ug/L	C	U		NA					NA				
Parathion	NA						NA					UNFI	0.200	ug/L	C	U
Pentachlorophenol	UNKN	50.000	ug/L	C	U		NA					NA				
Phenanthere	UNFI	10.000	ug/L	C	U		NA					NA				
Phenol	UNFI	10.000	ug/L	C	U		NA					NA				
Pyrene	UNFI	10.000	ug/L	C	U		NA					NA				
bis(2-Chloroethoxy)methane	UNFI	10.000	ug/L	C	U		NA					NA				
bis(2-Chloroethyl)ether	UNKN	10.000	ug/L	C	U		NA					NA				
bis(2-Chloroisopropyl) ether	UNFI	10.000	ug/L	C	U		NA					NA				
bis(2-Ethylhexyl) phthalate	UNFI	10.000	ug/L	C	U		NA					NA				
p-Chloroaniline	UNFI	10.000	ug/L	C	U		NA					NA				
<u>Pesticide Organics/PCBs</u>																
4,4'-DDD	UNFI	0.100	ug/L	C	U		NA					NA				
4,4'-DDE	UNFI	0.100	ug/L	C	U		NA					NA				
4,4'-DDT	UNFI	0.100	ug/L	C	U		NA					NA				
Aldrin	UNFI	0.050	ug/L	C	U		NA					NA				
Aroclor-1016	UNFI	0.500	ug/L	C	U		NA					NA				
Aroclor-1221	UNFI	0.500	ug/L	C	U		NA					NA				
Aroclor-1232	UNFI	0.500	ug/L	C	U		NA					NA				
Aroclor-1242	UNKN	0.500	ug/L	C	U		NA					NA				
Aroclor-1248	UNFI	0.500	ug/L	C	U		NA					NA				
Aroclor-1254	UNFI	1.000	ug/L	C	U		NA					NA				
Aroclor-1260	UNFI	1.000	ug/L	C	U		NA					NA				
Azinphosmethyl	NA						NA					UNFI	0.500	ug/L	C	U
Demeton	NA						NA					UNFI	0.400	ug/L	C	U
Diazinon	NA						NA					UNFI	0.200	ug/L	C	U
Dieldrin	UNFI	0.100	ug/L	C	U		NA					NA				

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000235

TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1016 003062				1016 003906				1016 004060						
SAMPLING DATE	03/28/88				02/26/89				03/29/89						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Pesticide Organics/PCBs</u>															
Disulfoton		NA					NA				UNFI	0.200	ug/L	C	U
Endosulfan II	UNFI	0.100	ug/L	C	U		NA					NA			
Endosulfan sulfate	UNFI	0.100	ug/L	C	U		NA					NA			
Endosulfan-I	UNFI	0.050	ug/L	C	U		NA					NA			
Endrin	UNKN	0.100	ug/L	C	U		NA					NA			
Endrin ketone	UNFI	0.100	ug/L	C	U		NA					NA			
Ethion		NA					NA				UNFI	0.200	ug/L	C	U
Heptachlor	UNFI	0.050	ug/L	C	U		NA					NA			
Heptachlor epoxide	UNFI	0.050	ug/L	C	U		NA					NA			
Malathion		NA					NA				UNFI	0.200	ug/L	C	U
Methoxychlor	UNFI	0.500	ug/L	C	U		NA					NA			
Toxaphene	UNFI	1.000	ug/L	C	U		NA					NA			
alpha-BHC	UNFI	0.050	ug/L	C	U		NA					NA			
alpha-Chlordane	UNFI	0.500	ug/L	C	U		NA					NA			
beta-BHC	UNFI	0.050	ug/L	C	U		NA					NA			
delta-BHC	UNKN	0.050	ug/L	C	U		NA					NA			
gamma-BHC (Lindane)	UNFI	0.050	ug/L	C	U		NA					NA			
gamma-Chlordane	UNFI	0.500	ug/L	C	U		NA					NA			
<u>General Chemistry</u>															
Ammonia	UNFI	0.100	mg/L	C	U	UNFI	0.300	mg/L	C	U		NA			
Chloride	UNFI	6.800	mg/L	C	-	UNFI	5.700	mg/L	C	U		NA			
Fluoride		NA				UNFI	0.100	mg/L	C	-		NA			
Fluoride	UNKN	0.900	mg/L	C	-		NA					NA			
Hexavalent Chromium	UNFI	0.020	mg/L	C	U		NA					NA			
Nitrate	UNFI	5.000	mg/L	C	U	UNFI	1.800	mg/L	C	-		NA			
Phenols	UNFI	0.010	mg/L	C	U	UNFI	0.005	mg/L	C	-		NA			
Phosphate	UNFI	0.300	mg/L	C	-		NA					NA			
Phosphorus		NA				UNFI	0.040	mg/L	C	-		NA			
Specific conductivity	UNFI	1040.000	umhos	C	-		NA					NA			
Sulfate		NA				UNFI	26.000	mg/L	C	-		NA			
Sulfate	UNKN	28.000	mg/L	C	-		NA					NA			
Total Kjeldahl Nitrogen		NA				UNFI	1.200	mg/L	C	-		NA			
Total Organic Halides		NA				UNFI	0.070	mg/L	C	-		NA			
Total Organic Nitrogen	UNFI	0.200	mg/L	C	U	UNFI	0.900	mg/L	C	-		NA			
pH	UNFI	6.800	stand	C	-		NA					NA			

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TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1047				1047				1711						
SAMPLE NUMBER	003102				003855				047005						
SAMPLING DATE	04/20/88				01/22/89				06/11/92						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>															
Aluminum		NA					NA				FLTD	0.052	mg/L	D	-
Antimony		NA					NA				FLTD	0.030	mg/L	D	UJ
Arsenic	FILT	0.200	mg/L	C	U	FILT	0.002	mg/L	C	U	FILT	0.050	mg/L	D	UJ
Barium	FILT	0.048	mg/L	C	-	FILT	0.054	mg/L	C	-	FILT	0.154	mg/L	D	-
Beryllium		NA					NA				FLTD	0.002	mg/L	D	U
Cadmium	FILT	0.005	mg/L	C	U	FILT	0.009	mg/L	C	-	FILT	0.005	mg/L	D	UJ
Calcium	FILT	103.000	mg/L	C	-	FILT	111.000	mg/L	C	-	FILT	233.000	mg/L	D	-
Chromium	FILT	0.020	mg/L	C	U	FILT	0.024	mg/L	C	-	FILT	0.010	mg/L	D	U
Cobalt		NA					NA				FLTD	0.027	mg/L	D	-
Copper	FILT	0.010	mg/L	C	U	FILT	0.011	mg/L	C	-	FILT	0.010	mg/L	D	U
Iron	FILT	0.066	mg/L	C	-	FILT	0.125	mg/L	C	UJ	FILT	11.300	mg/L	D	-
Lead	FILT	0.050	mg/L	C	UJ	FILT	0.002	mg/L	C	UJ	FILT	0.040	mg/L	D	UJ
Magnesium	FILT	50.800	mg/L	C	-	FILT	53.800	mg/L	C	-	FILT	49.400	mg/L	D	-
Manganese	FILT	0.035	mg/L	C	-	FILT	0.019	mg/L	C	-	FILT	3.760	mg/L	D	-
Mercury	FILT	0.000	mg/L	C	U	FILT	0.000	mg/L	C	U	FILT	0.000	mg/L	D	U
Molybdenum	FILT	0.020	mg/L	C	U	FILT	0.020	mg/L	C	U	FILT	0.088	mg/L	D	-
Nickel	FILT	0.020	mg/L	C	U	FILT	0.025	mg/L	C	-	FILT	2.430	mg/L	D	-
Potassium	FILT	2.730	mg/L	C	J	FILT	2.340	mg/L	C	-	FILT	34.000	mg/L	D	-
Selenium	FILT	0.200	mg/L	C	U	FILT	0.002	mg/L	C	U	FILT	0.080	mg/L	D	UJ
Silicon		NA					NA				FLTD	19.200	mg/L	D	-
Silver	FILT	0.012	mg/L	C	J	FILT	0.001	mg/L	C	U	FILT	0.010	mg/L	D	UJ
Sodium	FILT	22.300	mg/L	C	-	FILT	29.200	mg/L	D	-	FILT	59.500	mg/L	D	-
Thallium		NA					NA				FLTD	0.422	mg/L	D	J
Vanadium		NA					NA				FLTD	0.010	mg/L	D	U
Zinc		NA					NA				FLTD	0.012	mg/L	D	-
<u>General Chemistry</u>															
Ammonia		NA				UNFI	0.100	mg/L	C	U		NA			
Chloride		NA				UNFI	1.500	mg/L	C	U		NA			
Fluoride		NA				UNFI	0.800	mg/L	C	-		NA			
Nitrate		NA				UNFI	0.050	mg/L	C	R		NA			
Phenols		NA				UNFI	0.010	mg/L	C	U		NA			
Phosphorus		NA				UNFI	0.400	mg/L	C	-		NA			
Sulfate		NA				UNFI	180.000	mg/L	C	-		NA			
Total Kjeldahl Nitrogen		NA				UNFI	0.200	mg/L	C	-		NA			
Total Organic Halides		NA				UNFI	0.010	mg/L	C	U		NA			
Total Organic Nitrogen		NA				UNFI	0.200	mg/L	C	-		NA			

TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1711	SAMPLE NUMBER	047009		<th></th> <td>2016</td> <th></th>		2016			
SAMPLING DATE	06/19/92		<th></th> <th></th> <td></td> <td>003063</td> <th></th>				003063			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>										
Aluminum		NA					FILT	0.040	mg/L	C U
Aluminum	UNKN	0.030	mg/L	C	U		NA			
Antimony		NA					FILT	0.030	mg/L	C U
Antimony	UNKN	0.030	mg/L	C	UJ		NA			
Arsenic	UNKN	0.050	mg/L	C	UJ		UNKN	0.002	mg/L	C U
Barium	UNKN	0.133	mg/L	C	-		UNKN	0.045	mg/L	C -
Beryllium		NA					FILT	0.001	mg/L	C U
Beryllium	UNKN	0.002	mg/L	C	U		NA			
Cadmium	UNKN	0.005	mg/L	C	U		UNKN	0.005	mg/L	C U
Calcium	UNKN	213.000	mg/L	C	-		UNKN	92.700	mg/L	C -
Chromium	UNKN	0.010	mg/L	C	U		UNKN	0.010	mg/L	C U
Cobalt		NA					FILT	0.020	mg/L	C U
Cobalt	UNKN	0.073	mg/L	C	-		NA			
Copper	UNKN	0.010	mg/L	C	U		UNKN	0.010	mg/L	C U
Cyanide		NA					UNKN	0.010	mg/L	C U
Iron	UNKN	25.500	mg/L	C	-		UNKN	0.156	mg/L	C U
Lead	UNKN	0.040	mg/L	C	UJ		UNKN	0.030	mg/L	C U
Magnesium	UNKN	44.300	mg/L	C	-		UNKN	21.200	mg/L	C -
Manganese	UNKN	3.850	mg/L	C	-		UNKN	0.024	mg/L	C U
Mercury	UNKN	0.000	mg/L	C	U		UNKN	0.000	mg/L	C U
Molybdenum		NA					FILT	0.010	mg/L	C U
Molybdenum	UNKN	0.147	mg/L	C	-		NA			
Nickel	UNKN	1.020	mg/L	C	-		UNKN	0.020	mg/L	C U
Potassium	UNKN	23.100	mg/L	C	-		UNKN	2.000	mg/L	C U
Selenium	UNKN	0.080	mg/L	C	UJ		UNKN	0.002	mg/L	C U
Silicon	UNKN	20.100	mg/L	C	-		NA			
Silver	UNKN	0.010	mg/L	C	UJ		UNKN	0.005	mg/L	C U
Sodium	UNKN	39.100	mg/L	C	-		UNKN	13.800	mg/L	C -
Thallium		NA					FILT	0.004	mg/L	C U
Thallium	UNKN	0.435	mg/L	C	J		NA			
Vanadium		NA					FILT	0.010	mg/L	C U
Vanadium	UNKN	0.010	mg/L	C	U		NA			
Zinc		NA					FILT	0.034	mg/L	C -
Zinc	UNKN	0.014	mg/L	C	-		NA			
<u>Volatile Organics</u>										
1,1,1-Trichloroethane		NA					UNFI	5.000	ug/L	C U
1,1,2,2-Tetrachloroethane		NA					UNFI	5.000	ug/L	C U
1,1,2-Trichloroethane		NA					UNFI	5.000	ug/L	C U
1,1-Dichloroethane		NA					UNFI	5.000	ug/L	C U
1,1-Dichloroethene		NA					UNFI	5.000	ug/L	C U

TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1711	SAMPLE NUMBER	047009	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
SAMPLING DATE	06/19/92									03/28/88			
CHEMICAL PARAMETERS													
Volatile Organics													
1,2-Dichloroethane	NA								UNFI	5.000	ug/L	C	U
1,2-Dichloroethene	NA								UNFI	5.000	ug/L	C	U
1,2-Dichloropropane	NA								UNFI	5.000	ug/L	C	U
2-Butanone	NA								UNKN	10.000	ug/L	C	U
2-Hexanone	NA								UNFI	10.000	ug/L	C	U
4-Methyl-1-2-pentanone	NA								UNFI	10.000	ug/L	C	U
Acetone	NA								UNFI	10.000	ug/L	C	U
Benzene	NA								UNFI	5.000	ug/L	C	U
Bromodichloromethane	NA								UNFI	5.000	ug/L	C	U
Bromoform	NA								UNFI	5.000	ug/L	C	U
Bromomethane	NA								UNKN	10.000	ug/L	C	U
Carbon Tetrachloride	NA								UNFI	5.000	ug/L	C	U
Carbon disulfide	NA								UNFI	5.000	ug/L	C	U
Chlorobenzene	NA								UNKN	5.000	ug/L	C	U
Chloroethane	NA								UNFI	10.000	ug/L	C	U
Chloroform	NA								UNFI	5.000	ug/L	C	U
Chloromethane	NA								UNFI	10.000	ug/L	C	U
Dibromochloromethane	NA								UNFI	5.000	ug/L	C	U
Ethybenzene	NA								UNFI	5.000	ug/L	C	U
Methylene chloride	NA								UNFI	5.000	ug/L	C	U
Styrene	NA								UNFI	5.000	ug/L	C	U
Tetrachloroethene	NA								UNFI	5.000	ug/L	C	U
Toluene	NA								UNFI	5.000	ug/L	C	U
Trichloroethene	NA								UNFI	5.000	ug/L	C	U
Vinyl Acetate	NA								UNFI	10.000	ug/L	C	U
Vinyl chloride	NA								UNKN	10.000	ug/L	C	U
Xylenes, Total	NA								UNFI	5.000	ug/L	C	U
cis-1,3-Dichloropropene	NA								UNFI	5.000	ug/L	C	U
trans-1,3-Dichloropropene	NA								UNFI	5.000	ug/L	C	U
Semivolatile Organics													
1,2,4-Trichlorobenzene	NA								UNFI	10.000	ug/L	C	U
1,2-Dichlorobenzene	NA								UNKN	10.000	ug/L	C	U
1,3-Dichlorobenzene	NA								UNFI	10.000	ug/L	C	U
1,4-Dichlorobenzene	NA								UNFI	10.000	ug/L	C	U
2,4,5-Trichlorophenol	NA								UNKN	50.000	ug/L	C	U
2,4,6-Trichlorophenol	NA								UNFI	10.000	ug/L	C	U
2,4-Dichlorophenol	NA								UNFI	10.000	ug/L	C	U
2,4-Dimethylphenol	NA								UNFI	10.000	ug/L	C	U
2,4-Dinitrophenol	NA								UNFI	50.000	ug/L	C	U
2,4-Dinitrotoluene	NA								UNFI	10.000	ug/L	C	U

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TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1711	2016			
SAMPLE NUMBER	047009	003063			
SAMPLING DATE	06/19/92	03/28/88			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	
<u>Semivolatile Organics</u>					
2,6-Dinitrotoluene	NA		UNFI	10.000 ug/L C U	
2-Chloro-N-(2,6-diethylphenyl)-N-(methoxy	NA		NA		
2-Chloronaphthalene	NA		UNKN	10.000 ug/L C U	
2-Chiophenol	NA		UNFI	10.000 ug/L C U	
2-Methylnaphthalene	NA		UNFI	10.000 ug/L C U	
2-Methylphenol	NA		UNFI	10.000 ug/L C U	
2-Nitroaniline	NA		UNKN	50.000 ug/L C U	
2-Nitrophenol	NA		UNFI	10.000 ug/L C U	
3,3'-Dichlorobenzidine	NA		UNFI	20.000 ug/L C U	
3-Nitroaniline	NA		UNFI	50.000 ug/L C U	
4,6-Dinitro-2-methylphenol	NA		UNFI	50.000 ug/L C U	
4-Bromophenyl phenyl ether	NA		UNFI	10.000 ug/L C U	
4-Chloro-3-methylphenol	NA		UNFI	10.000 ug/L C U	
4-Chlorophenylphenyl ether	NA		UNKN	10.000 ug/L C U	
4-Methylphenol	NA		UNFI	10.000 ug/L C U	
4-Nitroaniline	NA		UNFI	50.000 ug/L C U	
4-Nitrophenol	NA		UNFI	50.000 ug/L C U	
6-Chloro-N,N'-diethyl-1,3,5-triazine-2,4-	NA		NA		
Acenaphthene	NA		UNFI	10.000 ug/L C U	
Acenaphthylene	NA		UNFI	10.000 ug/L C U	
Anthracene	NA		UNFI	10.000 ug/L C U	
Benz(a)anthracene	NA		UNFI	10.000 ug/L C U	
Benz(a)pyrene	NA		UNFI	10.000 ug/L C U	
Benz(b)fluoranthene	NA		UNFI	10.000 ug/L C U	
Benz(g,h,i)perylene	NA		UNKN	10.000 ug/L C U	
Benz(k)fluoranthene	NA		UNFI	10.000 ug/L C U	
Benzoic acid	NA		UNFI	50.000 ug/L C U	
Benzyl alcohol	NA		UNFI	10.000 ug/L C U	
Butyl benzyl phthalate	NA		UNFI	10.000 ug/L C U	
Chrysene	NA		UNFI	10.000 ug/L C U	
Di-n-butyl phthalate	NA		UNFI	10.000 ug/L C U	
Di-n-octyl phthalate	NA		UNFI	10.000 ug/L C U	
Dibenzo(a,h)anthracene	NA		UNKN	10.000 ug/L C U	
Dibenzo furan	NA		UNFI	10.000 ug/L C U	
Diethyl phthalate	NA		UNFI	10.000 ug/L C U	
Dimethyl phthalate	NA		UNFI	10.000 ug/L C U	
Fluoranthene	NA		UNKN	10.000 ug/L C U	
Fluorene	NA		UNFI	10.000 ug/L C U	
Hexachlorobenzene	NA		UNFI	10.000 ug/L C U	
Hexachlorobutadiene	NA		UNFI	10.000 ug/L C U	
Hexachlorocyclopentadiene	NA		UNFI	10.000 ug/L C U	
Hexachloroethane	NA		UNFI	10.000 ug/L C U	

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TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1711	2016			
SAMPLE NUMBER	047009	003063			
SAMPLING DATE	06/19/92	03/28/88			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	
<u>Semivolatile Organics</u>					
Indeno(1,2,3-cd)pyrene	NA		UNFI	10.000	ug/L C U
Isophorone	NA		UNFI	10.000	ug/L C U
N-Nitroso-di-n-propylamine	NA		UNFI	10.000	ug/L C U
N-Nitrosodiphenylamine	NA		UNFI	10.000	ug/L C U
Naphthalene	NA		UNFI	10.000	ug/L C U
Nitrobenzene	NA		UNFI	10.000	ug/L C U
Pentachlorophenol	NA		UNFI	50.000	ug/L C U
Phenanthrene	NA		UNFI	10.000	ug/L C U
Phenol	NA		UNFI	10.000	ug/L C U
Pyrene	NA		UNFI	10.000	ug/L C U
bis(2-Chloroethoxy)methane	NA		UNFI	10.000	ug/L C U
bis(2-Chloroethyl)ether	NA		UNFI	10.000	ug/L C U
bis(2-Chloroisopropyl) ether	NA		UNFI	10.000	ug/L C U
bis(2-Ethylhexyl) phthalate	NA		UNFI	4.000	ug/L C J
p-Chloroaniline	NA		UNFI	10.000	ug/L C U
<u>Herbicide Organics</u>					
2,4,5-TP (Silvex)	NA		NA		
2,4-D	NA		NA		
Atrazine	NA		NA		
Cyanazine	NA		NA		
Linuron	NA		NA		
Metribuzin	NA		NA		
<u>Pesticide Organics/PCBs</u>					
4,4'-DDD	NA		UNFI	0.100	ug/L C U
4,4'-DDE	NA		UNFI	0.100	ug/L C U
4,4'-DDT	NA		UNKN	0.100	ug/L C U
Aldrin	NA		UNFI	0.050	ug/L C U
Aroclor-1016	NA		UNFI	0.500	ug/L C U
Aroclor-1221	NA		UNFI	0.500	ug/L C U
Aroclor-1232	NA		UNKN	0.500	ug/L C U
Aroclor-1242	NA		UNFI	0.500	ug/L C U
Aroclor-1248	NA		UNFI	0.500	ug/L C U
Aroclor-1254	NA		UNFI	1.000	ug/L C U
Aroclor-1260	NA		UNFI	1.000	ug/L C U
Dieldrin	NA		UNFI	0.100	ug/L C U
Endosulfan II	NA		UNFI	0.100	ug/L C U
Endosulfan sulfate	NA		UNFI	0.100	ug/L C U
Endosulfan-I	NA		UNFI	0.050	ug/L C U

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TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1711			2016		
SAMPLE NUMBER	047009			003063		
SAMPLING DATE	06/19/92			03/28/88		
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ
<u>Pesticide Organics/PCBs</u>						
Endrin		NA		UNKN	NA	
Endrin		NA		UNFI	0.100	ug/L C U
Endrin ketone		NA			0.100	ug/L C U
Fonofos		NA			NA	
Heptachlor		NA		UNFI	0.050	ug/L C U
Heptachlor epoxide		NA		UNKN	0.050	ug/L C U
Methoxychlor		NA			NA	
Methoxychlor		NA		UNKN	0.500	ug/L C U
Metolachlor		NA			NA	
Phosphorodithiob acid, O,O-diethyl-S-((NA			NA	
Toxaphene		NA		UNFI	1.000	ug/L C U
alpha-BHC		NA		UNFI	0.050	ug/L C U
alpha-Chlordane		NA		UNFI	0.500	ug/L C U
beta-BHC		NA		UNKN	0.050	ug/L C U
delta-BHC		NA		UNFI	0.050	ug/L C U
gamma-BHC (Lindane)		NA		UNFI	0.050	ug/L C U
gamma-Chlordane		NA		UNKN	0.500	ug/L C U
<u>Dioxin/Furan</u>						
Carbofuran		NA			NA	
<u>General Chemistry</u>						
Ammonia		NA		UNFI	0.100	mg/L C U
Chemical Oxygen Demand		NA			NA	
Chloride		NA		UNFI	23.000	mg/L C -
Fluoride		NA		UNFI	0.500	mg/L C U
Hexavalent Chromium		NA		UNFI	0.020	mg/L C U
Nitrate		NA		UNFI	5.000	mg/L C U
Phenols		NA		UNFI	0.010	mg/L C U
Phosphate		NA		UNFI	0.280	mg/L C -
Phosphorus		NA			NA	
Specific conductivity		NA		UNFI	650.000	umhos C -
Sulfate		NA		UNFI	59.000	mg/L C -
Total Dissolved Solids		NA			NA	
Total Organic Carbon		NA			NA	
Total Organic Halides		NA			NA	
Total Organic Nitrogen		NA		UNFI	0.300	mg/L C U
pH		NA		UNFI	7.580	stand C -

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TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2016 003434	2016 003551	2016 003685			
SAMPLING DATE	08/03/88	02/07/89	11/04/88			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Inorganics</u>						
Arsenic	*F	0.010 mg/L C U	NA		NA	
Arsenic		NA	NA		FILT	0.002 mg/L C U
Barium	*F	0.200 mg/L C U	NA		NA	
Barium		NA	NA		FILT	0.030 mg/L C -
Cadmium	*F	0.005 mg/L C U	NA		NA	
Cadmium		NA	NA		FILT	0.002 mg/L C U
Calcium	*F	92.000 mg/L C J	NA		NA	
Calcium		NA	NA		FILT	82.700 mg/L C -
Chromium	*F	0.010 mg/L C U	NA		NA	
Chromium		NA	NA		FILT	0.020 mg/L C U
Copper	*F	0.030 mg/L C U	NA		NA	
Copper		NA	NA		FILT	0.015 mg/L C -
Iron	*F	0.100 mg/L C U	NA		NA	
Iron		NA	NA		FILT	0.020 mg/L C -
Lead	*F	0.005 mg/L C U	NA		NA	
Lead		NA	NA		FILT	0.004 mg/L C UJ
Magnesium	*F	24.000 mg/L C J	NA		NA	
Magnesium		NA	NA		FILT	20.500 mg/L C -
Manganese	*F	0.020 mg/L C U	NA		NA	
Manganese		NA	NA		FILT	0.002 mg/L C -
Mercury	*F	0.000 mg/L C U	NA		NA	
Mercury		NA	NA		FILT	0.000 mg/L C U
Molybdenum	*F	0.050 mg/L C U	NA		NA	
Molybdenum		NA	NA		FILT	0.020 mg/L C U
Nickel	*F	0.040 mg/L C U	NA		NA	
Nickel		NA	NA		FILT	0.020 mg/L C U
Potassium	*F	5.000 mg/L C UJ	NA		NA	
Potassium		NA	NA		FILT	2.620 mg/L C J
Selenium	*F	0.005 mg/L C U	NA		NA	
Selenium		NA	NA		FILT	0.002 mg/L C UJ
Silver	*F	0.010 mg/L C U	NA		NA	
Silver		NA	NA		FILT	0.010 mg/L C U
Sodium	*F	12.000 mg/L C J	NA		NA	
Sodium		NA	NA		FILT	12.200 mg/L C -
<u>Semivolatile Organics</u>						
Methyl parathion		NA	UNFI	0.250 ug/L C U		NA
Parathion		NA	UNFI	0.250 ug/L C U		NA
<u>Pesticide Organics/PCBs</u>						
Azinphosmethyl		NA	UNFI	2.500 ug/L C U		NA

TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	2016	2016				2016				
SAMPLE NUMBER	003434	003551				003685				
SAMPLING DATE	08/03/88	02/07/89				11/04/88				
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Pesticide Organics/PCBs</u>										
Demeton		NA				UNFI	0.250	ug/L	C	U
Diazinon		NA				UNFI	0.250	ug/L	C	U
Disulfoton		NA				UNFI	0.250	ug/L	C	U
Ethion		NA				UNFI	0.250	ug/L	C	U
Malathion		NA				UNFI	0.250	ug/L	C	U
<u>General Chemistry</u>										
Ammonia	UNFI	0.100	mg/L	C	UJ	NA				
Chloride	UNFI	23.000	mg/L	C	J	NA				
Fluoride	UNFI	0.770	mg/L	C	J	NA				
Nitrate	UNFI	5.300	mg/L	C	J	NA				
Phenols	UNFI	0.050	mg/L	C	U	NA				
Phosphorus	UNFI	0.030	mg/L	C	J	NA				
Sulfate	UNFI	56.000	mg/L	C	J	NA				
Total Kjeldahl Nitrogen	NA					NA				
Total Organic Halides	NA					NA				
Total Organic Nitrogen	UNFI	0.100	mg/L	C	UJ	NA				

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TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2016 003883				2016 004152				2016 004213			
SAMPLING DATE	02/07/89				07/26/89				03/04/90			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Inorganics</u>												
Aluminum		NA				NA			FILT	0.279	mg/L	C -
Aluminum		NA				0.374	mg/L	C -		NA		
Arsenic	FILT	0.002	mg/L	C U	UNKN	NA			FILT	0.002	mg/L	C U
Arsenic		NA				0.002	mg/L	C UJ		NA		
Barium	FILT	0.046	mg/L	C -	UNKN	NA			FILT	0.044	mg/L	C -
Barium		NA				0.041	mg/L	C -		NA		
Cadmium	FILT	0.005	mg/L	C -	UNKN	NA			FILT	0.003	mg/L	C -
Cadmium		NA				0.003	mg/L	C -		NA		
Calcium	FILT	96.300	mg/L	C -	UNKN	NA			FILT	88.200	mg/L	C -
Calcium		NA				86.600	mg/L	C -		NA		
Chromium	FILT	0.026	mg/L	C -	UNKN	NA			FILT	0.127	mg/L	C -
Chromium		NA				0.031	mg/L	C -		NA		
Copper	FILT	0.011	mg/L	C -	UNKN	NA			FILT	0.023	mg/L	C -
Copper		NA				0.011	mg/L	C -		NA		
Iron	FILT	0.085	mg/L	C -	UNKN	NA			FILT	0.143	mg/L	C -
Iron		NA				0.192	mg/L	C -		NA		
Lead	FILT	0.002	mg/L	C -	UNKN	NA			FILT	0.002	mg/L	C -
Lead		NA				0.003	mg/L	C -		NA		
Magnesium	FILT	25.900	mg/L	C -	UNKN	NA			FILT	23.400	mg/L	C -
Magnesium		NA				22.000	mg/L	C -		NA		
Manganese	FILT	0.006	mg/L	C -	UNKN	NA			FILT	0.014	mg/L	C -
Manganese		NA				0.012	mg/L	C -		NA		
Mercury	FILT	0.001	mg/L	C J	UNKN	NA			FILT	0.002	mg/L	C U
Mercury		NA				0.000	mg/L	C -		NA		
Molybdenum	FILT	0.020	mg/L	C U	UNKN	NA			FILT	0.100	mg/L	C U
Molybdenum		NA				0.010	mg/L	C U		NA		
Nickel	FILT	0.020	mg/L	C U	UNKN	NA			FILT	0.020	mg/L	C U
Nickel		NA				0.020	mg/L	C U		NA		
Potassium	FILT	2.490	mg/L	C -	UNKN	NA			FILT	2.360	mg/L	C -
Potassium		NA				2.280	mg/L	C -		NA		
Selenium	FILT	0.002	mg/L	C U	UNKN	NA			FILT	0.002	mg/L	C UJ
Selenium		NA				0.002	mg/L	C U		NA		
Silicon		NA				NA			FILT	3.140	mg/L	C J
Silicon		NA				3.550	mg/L	C -		NA		
Silver	FILT	0.001	mg/L	C U	UNKN	NA			FILT	0.010	mg/L	C U
Silver		NA				0.010	mg/L	C U		NA		
Sodium	FILT	10.800	mg/L	C -	UNKN	NA			FILT	11.700	mg/L	C -
Sodium		NA				11.200	mg/L	C -		NA		
Vanadium		NA				NA			FILT	0.015	mg/L	C -
Vanadium		NA				0.013	mg/L	C -		NA		
<u>General Chemistry</u>												
Ammonia	UNFI	0.100	mg/L	C U	UNFI	0.100	mg/L	C U	UNFI	0.100	mg/L	C U

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000200

TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2016 003883				2016 004152				2016 004213			
SAMPLING DATE	02/07/89				07/26/89				03/04/90			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>General Chemistry</u>												
Chloride	UNFI	16.500	mg/L	C -	UNFI	21.200	mg/L	C -	UNFI	12.000	mg/L	C -
Fluoride	UNFI	0.210	mg/L	C J	UNFI	0.220	mg/L	C -	UNFI	0.200	mg/L	C -
Nitrate	UNFI	2.240	mg/L	C J	UNFI	2.650	mg/L	C J	UNFI	2.520	mg/L	C J
Phenols	UNFI	0.010	mg/L	C R	UNFI	0.010	mg/L	C U	UNFI	0.010	mg/L	C U
Phosphorus	UNFI	0.080	mg/L	C -	UNFI	0.211	mg/L	C -	UNFI	0.060	mg/L	C -
Sulfate	UNFI	51.200	mg/L	C J	UNFI	51.700	mg/L	C -	UNFI	58.500	mg/L	C J
Sulfide		NA			UNFI	0.500	mg/L	C UJ	UNFI	0.500	mg/L	C R
Total Kjeldahl Nitrogen	UNFI	0.181	mg/L	C J	UNFI	0.459	mg/L	C U	UNFI	0.100	mg/L	C U
Total Organic Carbon		NA			UNFI	3.710	mg/L	C -	UNFI	1.650	mg/L	C -
Total Organic Halides	UNFI	0.050	mg/L	C U	UNFI	0.010	mg/L	C UJ	UNFI	0.010	mg/L	C U
Total Organic Nitrogen	UNFI	0.181	mg/L	C J	UNFI	0.623	mg/L	C -	UNFI	0.100	mg/L	C U

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000226

TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2047 003998				2047 004093				2047 004160			
SAMPLING DATE	01/22/89				05/02/89				07/28/89			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Inorganics</u>												
Aluminum		NA			FILT	0.115	mg/L	C -	FILT	0.113	mg/L	C -
Arsenic	FILT	0.002	mg/L	C U	FILT	0.002	mg/L	C U	FILT	0.002	mg/L	C UJ
Barium	FILT	0.042	mg/L	C -	FILT	0.047	mg/L	C -	FILT	0.048	mg/L	C -
Cadmium	FILT	0.004	mg/L	C -	FILT	0.004	mg/L	C -	FILT	0.005	mg/L	C -
Calcium	FILT	86.000	mg/L	C -	FILT	89.600	mg/L	C -	FILT	99.000	mg/L	C -
Chromium	FILT	0.022	mg/L	C -	FILT	0.014	mg/L	C -	FILT	0.033	mg/L	C -
Copper	FILT	0.013	mg/L	C -	FILT	0.010	mg/L	C -	FILT	0.010	mg/L	C U
Iron	FILT	0.061	mg/L	C -	FILT	0.053	mg/L	C -	FILT	0.031	mg/L	C -
Lead	FILT	0.002	mg/L	C UJ	FILT	0.002	mg/L	C UJ	FILT	0.005	mg/L	C -
Magnesium	FILT	24.500	mg/L	C -	FILT	27.000	mg/L	C -	FILT	28.500	mg/L	C -
Manganese	FILT	0.015	mg/L	C -	FILT	0.012	mg/L	C -	FILT	0.010	mg/L	C -
Mercury	FILT	0.000	mg/L	C U	FILT	0.200	mg/L	C UJ	FILT	0.000	mg/L	C U
Molybdenum	FILT	0.020	mg/L	C U	FILT	0.010	mg/L	C U	FILT	0.010	mg/L	C U
Nickel	FILT	0.020	mg/L	C U	FILT	0.020	mg/L	C U	FILT	0.020	mg/L	C U
Potassium	FILT	2.530	mg/L	C -	FILT	2.200	mg/L	C -	FILT	2.050	mg/L	C -
Selenium	FILT	0.002	mg/L	C U	FILT	0.002	mg/L	C UJ	FILT	0.002	mg/L	C U
Silicon		NA			FILT	3.790	mg/L	C -	FILT	4.010	mg/L	C -
Silver	FILT	0.001	mg/L	C U	FILT	0.001	mg/L	C U	FILT	0.010	mg/L	C U
Sodium	FILT	10.500	mg/L	C -	FILT	10.310	mg/L	C -	FILT	11.100	mg/L	C -
Vanadium		NA			FILT	0.012	mg/L	C -	FILT	0.014	mg/L	C -
<u>General Chemistry</u>												
Ammonia	UNFI	0.100	mg/L	C U	UNFI	0.100	mg/L	C U	UNFI	0.100	mg/L	C U
Chloride	UNFI	30.000	mg/L	C -	UNFI	25.500	mg/L	C -	UNFI	23.500	mg/L	C -
Fluoride	UNFI	0.200	mg/L	C -	UNFI	0.165	mg/L	C -	UNFI	0.210	mg/L	C -
Nitrate	UNFI	1.600	mg/L	C J	UNFI	2.320	mg/L	C J	UNFI	2.090	mg/L	C J
Phenols	UNFI	0.010	mg/L	C U	UNFI	0.055	mg/L	C -	UNFI	0.010	mg/L	C U
Phosphorus	UNFI	0.100	mg/L	C -	UNFI	0.758	mg/L	C -	UNFI	0.199	mg/L	C -
Sulfate	UNFI	68.000	mg/L	C -	UNFI	64.300	mg/L	C J	UNFI	56.900	mg/L	C -
Sulfide		NA			UNFI	28.100	mg/L	C J	UNFI	0.500	mg/L	C UJ
Total Kjeldahl Nitrogen	UNFI	0.100	mg/L	C U	UNFI	0.411	mg/L	C -	UNFI	0.160	mg/L	C -
Total Organic Carbon		NA			UNFI	1.000	mg/L	C UJ	UNFI	1.810	mg/L	C -
Total Organic Halides	UNFI	0.010	mg/L	C U	UNFI	0.033	mg/L	C -	UNFI	0.010	mg/L	C U
Total Organic Nitrogen	UNFI	0.100	mg/L	C U	UNFI	0.411	mg/L	C -	UNFI	0.160	mg/L	C -

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TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2047 004220				2402 038304				2402 038339				
SAMPLING DATE	04/03/90				01/28/92				04/07/92				
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	
<u>Inorganics</u>													
Aluminum	FILT	0.132	mg/L	C -	UNKN	NA	mg/L	D R	UNKN	NA	0.027	mg/L	D U
Aluminum	FILT	NA	mg/L	C UJ	UNKN	NA	mg/L	D U	UNKN	NA	0.001	mg/L	D U
Arsenic	FILT	0.002	mg/L	C UJ	UNKN	0.002	mg/L	D U	UNKN	NA	0.041	mg/L	D -
Arsenic	FILT	NA	mg/L	C -	UNKN	NA	mg/L	D R	UNKN	NA	0.004	mg/L	D UJ
Barium	FILT	0.041	mg/L	C -	UNKN	0.039	mg/L	D R	UNKN	NA	75.100	mg/L	D -
Barium	FILT	NA	mg/L	C -	UNKN	0.002	mg/L	D R	UNKN	NA	0.008	mg/L	D U
Cadmium	FILT	0.005	mg/L	C -	UNKN	NA	mg/L	D R	UNKN	NA	0.004	mg/L	D UJ
Cadmium	FILT	NA	mg/L	C -	UNKN	NA	mg/L	D R	UNKN	NA	0.004	mg/L	D U
Calcium	FILT	87.000	mg/L	C -	UNKN	79.000	mg/L	D R	UNKN	NA	0.008	mg/L	D U
Calcium	FILT	NA	mg/L	C -	UNKN	0.023	mg/L	D R	UNKN	NA	0.004	mg/L	D U
Chromium	FILT	0.027	mg/L	C -	UNKN	NA	mg/L	D R	UNKN	NA	0.004	mg/L	D U
Chromium	FILT	NA	mg/L	C -	UNKN	0.010	mg/L	D R	UNKN	NA	0.004	mg/L	D U
Copper	FILT	0.010	mg/L	C U	UNKN	NA	mg/L	D R	UNKN	NA	0.008	mg/L	D U
Copper	FILT	NA	mg/L	C U	UNKN	0.010	mg/L	D R	UNKN	NA	0.008	mg/L	D U
Iron	FILT	1.600	mg/L	C -	UNKN	NA	mg/L	D R	UNKN	NA	0.008	mg/L	D U
Iron	FILT	NA	mg/L	C -	UNKN	0.054	mg/L	D R	UNKN	NA	0.008	mg/L	D U
Lead	FILT	0.006	mg/L	C U	UNKN	NA	mg/L	D U	UNKN	NA	0.001	mg/L	D U
Lead	FILT	NA	mg/L	C U	UNKN	0.002	mg/L	D U	UNKN	NA	0.001	mg/L	D U
Magnesium	FILT	26.000	mg/L	C -	UNKN	NA	mg/L	D R	UNKN	NA	18.800	mg/L	D -
Magnesium	FILT	NA	mg/L	C -	UNKN	20.800	mg/L	D R	UNKN	NA	0.007	mg/L	D U
Manganese	FILT	0.011	mg/L	C -	UNKN	NA	mg/L	D R	UNKN	NA	0.000	mg/L	D U
Manganese	FILT	NA	mg/L	C -	UNKN	0.033	mg/L	D R	UNKN	NA	0.003	mg/L	D UJ
Mercury	FILT	0.000	mg/L	C U	UNKN	NA	mg/L	D U	UNKN	NA	0.000	mg/L	D U
Mercury	FILT	NA	mg/L	C U	UNKN	0.000	mg/L	D U	UNKN	NA	0.000	mg/L	D U
Molybdenum	FILT	0.010	mg/L	C UJ	UNKN	NA	mg/L	D R	UNKN	NA	0.010	mg/L	D UJ
Molybdenum	FILT	NA	mg/L	C UJ	UNKN	0.010	mg/L	D R	UNKN	NA	0.004	mg/L	D U
Nickel	FILT	0.020	mg/L	C U	UNKN	NA	mg/L	D R	UNKN	NA	0.019	mg/L	D U
Nickel	FILT	NA	mg/L	C U	UNKN	0.020	mg/L	D R	UNKN	NA	2.680	mg/L	D -
Potassium	FILT	2.540	mg/L	C J	UNKN	NA	mg/L	D -	UNKN	NA	0.001	mg/L	D J
Potassium	FILT	NA	mg/L	C J	UNKN	2.920	mg/L	D -	UNKN	NA	0.001	mg/L	D J
Selenium	FILT	0.002	mg/L	C U	UNKN	NA	mg/L	D U	UNKN	NA	1.310	mg/L	D R
Selenium	FILT	NA	mg/L	C U	UNKN	0.003	mg/L	D U	UNKN	NA	2.530	mg/L	D J
Silicon	FILT	3.800	mg/L	C -	UNKN	NA	mg/L	D R	UNKN	NA	0.019	mg/L	D U
Silicon	FILT	NA	mg/L	C -	UNKN	0.019	mg/L	D R	UNKN	NA	0.004	mg/L	D U
Silver	FILT	0.010	mg/L	C -	UNKN	NA	mg/L	D R	UNKN	NA	12.900	mg/L	D -
Silver	FILT	NA	mg/L	C -	UNKN	0.010	mg/L	D R	UNKN	NA	0.006	mg/L	D U
Sodium	FILT	17.100	mg/L	C -	UNKN	NA	mg/L	D R	UNKN	NA	0.050	mg/L	C UJ
Sodium	FILT	NA	mg/L	C -	UNKN	10.900	mg/L	D R	UNKN	NA	0.004	mg/L	D U
Vanadium	FILT	0.016	mg/L	C -	UNKN	NA	mg/L	D R	UNKN	NA	12.900	mg/L	D -
Vanadium	FILT	NA	mg/L	C -	UNKN	0.010	mg/L	D R	UNKN	NA	0.006	mg/L	D U
<u>General Chemistry</u>													
Ammonia		NA				NA			U	0.050	mg/L	C UJ	

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000238

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January 21, 1995

TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	2047	SAMPLE NUMBER	004220	BORING NUMBER	2402	SAMPLE NUMBER	038304	BORING NUMBER	2402	SAMPLE NUMBER	038339				
SAMPLING DATE	04/03/90	SAMPLING DATE	01/28/92				SAMPLING DATE	04/07/92							
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>General Chemistry</u>															
Ammonia	UNFI	0.100	mg/L	C	U	UNKN	NA	mg/L	C	U	UNFI	NA	mg/L	C	J
Ammonia	UNFI	NA				UNKN	NA	mg/L	C	U	UNFI	NA	mg/L	C	J
Chloride	UNFI	11.300	mg/L	C	-	UNKN	18.600	mg/L	C	-	UNFI	22.000	mg/L	C	J
Chloride	UNFI	NA				UNFI	0.245	mg/L	C	-	UNFI	0.200	mg/L	C	J
Fluoride	UNFI	0.220	mg/L	C	-	UNFI	1.180	mg/L	C	-	UNFI	2.500	mg/L	C	J
Nitrate	UNFI	2.590	mg/L	C	R	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	U
Phenols	UNFI	0.021	mg/L	C	-	UNFI	0.240	mg/L	C	-	UNFI	0.120	mg/L	C	J
Phosphorus	UNFI	0.090	mg/L	C	-	UNFI	NA				UNFI	63.000	mg/L	C	-
Sulfate	UNFI	72.200	mg/L	C	-	UNKN	75.400	mg/L	C	J	UNFI	NA			
Sulfate	UNFI	NA				UNFI	0.500	mg/L	C	U	UNFI	0.500	mg/L	C	U
Sulfide	UNFI	0.500	mg/L	C	U	UNFI	2.260	mg/L	C	-	UNFI	3.000	mg/L	C	-
Total Organic Carbon	UNFI	0.459	mg/L	C	U	UNFI	0.016	mg/L	C	U	UNFI	0.010	mg/L	C	-
Total Organic Halides	UNFI	0.010	mg/L	C	R	UNFI	0.290	mg/L	C	J	UNFI	1.000	mg/L	C	UJ
Total Organic Nitrogen	UNFI	0.100	mg/L	C	U										

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662000

TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	3016 003082				3016 003435				3016 003686				
SAMPLING DATE	04/08/88				08/03/88				11/04/88				
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	
<u>Inorganics</u>													
Arsenic		NA			*F	0.010	mg/L	C U		NA			
Arsenic	FILT	0.200	mg/L	C UJ	*F	NA	0.200	mg/L	C U	FILT	0.002	mg/L	C U
Barium		NA			*F	NA	0.040	mg/L	C -				
Barium	FILT	0.049	mg/L	C R	*F	NA	0.005	mg/L	C U	FILT	0.002	mg/L	C U
Cadmium		NA			*F	NA	86.000	mg/L	C J	FILT	NA		
Cadmium	FILT	0.002	mg/L	C U	*F	NA	0.010	mg/L	C U	FILT	82.900	mg/L	C -
Calcium		NA			*F	NA	0.030	mg/L	C U	FILT	0.020	mg/L	C U
Calcium	FILT	80.900	mg/L	C -	*F	NA	0.100	mg/L	C U	FILT	0.010	mg/L	C U
Chromium		NA			*F	NA	0.005	mg/L	C U	FILT	0.100	mg/L	C -
Chromium	FILT	0.020	mg/L	C U	*F	NA	0.005	mg/L	C U	FILT	0.003	mg/L	C UJ
Copper		NA			*F	NA	20.000	mg/L	C J	FILT	NA		
Copper	FILT	0.010	mg/L	C U	*F	NA	0.020	mg/L	C U	FILT	21.400	mg/L	C -
Iron		NA			*F	NA	0.000	mg/L	C R	FILT	0.050	mg/L	C -
Iron	FILT	0.025	mg/L	C U	*F	NA	0.050	mg/L	C U	FILT	0.000	mg/L	C U
Lead		NA			*F	NA	0.005	mg/L	C U	FILT	0.020	mg/L	C U
Lead	FILT	0.050	mg/L	C -	*F	NA	0.010	mg/L	C U	FILT	0.020	mg/L	C U
Magnesium		NA			*F	NA	5.000	mg/L	C UJ	FILT	NA		
Magnesium	FILT	20.440	mg/L	C -	*F	NA	0.005	mg/L	C U	FILT	2.530	mg/L	C J
Manganese		NA			*F	NA	0.005	mg/L	C U	FILT	0.002	mg/L	C J
Manganese	FILT	0.019	mg/L	C -	*F	NA	0.010	mg/L	C U	FILT	0.010	mg/L	C U
Mercury		NA			*F	NA	12.000	mg/L	C J	FILT	NA		
Mercury	FILT	0.000	mg/L	C U	*F	NA	0.050	mg/L	C U	FILT	11.300	mg/L	C -
Molybdenum		NA			*F	NA	0.740	mg/L	C J	FILT	0.150	mg/L	C J
Molybdenum	FILT	0.020	mg/L	C U	*F	NA	4.900	mg/L	C J	FILT	3.050	mg/L	C J
Nickel		NA			*F	NA	0.050	mg/L	C U	FILT	0.010	mg/L	C U
Nickel	FILT	0.020	mg/L	C U	*F	NA	0.000	mg/L	C U	FILT	0.000	mg/L	C U
Potassium		NA			*F	NA	0.040	mg/L	C U	FILT	NA		
Potassium	FILT	2.880	mg/L	C -	*F	NA	5.000	mg/L	C UJ	FILT	NA		
Selenium		NA			*F	NA	0.005	mg/L	C U	FILT	NA		
Selenium	FILT	0.200	mg/L	C UJ	*F	NA	0.010	mg/L	C U	FILT	0.010	mg/L	C U
Silver		NA			*F	NA	12.000	mg/L	C J	FILT	NA		
Silver	FILT	0.010	mg/L	C U	*F	NA	0.050	mg/L	C U	FILT	0.010	mg/L	C U
Sodium		NA			*F	NA	0.100	mg/L	C U	FILT	NA		
Sodium	FILT	13.070	mg/L	C -	*F	NA	25.600	mg/L	C -	FILT	0.100	mg/L	C U
<u>General Chemistry</u>													
Ammonia	UNFI	0.100	mg/L	C U	UNFI	0.100	mg/L	C UJ	UNFI	0.100	mg/L	C U	
Chloride	UNFI	20.400	mg/L	C -	UNFI	24.000	mg/L	C J	UNFI	25.600	mg/L	C -	
Fluoride	UNFI	0.270	mg/L	C -	UNFI	0.740	mg/L	C J	UNFI	0.150	mg/L	C J	
Nitrate	UNFI	0.090	mg/L	C J	UNFI	4.900	mg/L	C J	UNFI	3.050	mg/L	C J	
Phenols	UNFI	0.010	mg/L	C U	UNFI	0.050	mg/L	C U	UNFI	0.010	mg/L	C U	

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TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	3016	BORING NUMBER	3016	BORING NUMBER	3016												
SAMPLE NUMBER	003082	SAMPLE NUMBER	003435	SAMPLE NUMBER	003686												
SAMPLING DATE	04/08/88	SAMPLING DATE	08/03/88	SAMPLING DATE	11/04/88												
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ		
<u>General Chemistry</u>																	
Phosphorus	UNFI	0.050	mg/L	C	U	UNFI	0.030	mg/L	C	J	UNFI	0.020	mg/L	C	U		
Sulfate	UNFI	56.000	mg/L	C	-	UNFI	56.000	mg/L	C	J	UNFI	174.000	mg/L	C	-		
Total Kjeldahl Nitrogen	NA					NA					UNFI	0.140	mg/L	C	J		
Total Organic Halides	NA					NA					UNFI	0.050	mg/L	C	U		
Total Organic Nitrogen	UNFI	0.210	mg/L	C	-	UNFI	0.100	mg/L	C	UJ	UNFI	0.140	mg/L	C	-		

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TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	3016 003882			3016 004241			3402 038346		
SAMPLE NUMBER	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ
SAMPLING DATE		02/07/89			03/04/90			04/09/92	
CHEMICAL PARAMETERS	<u>Inorganics</u>								
Aluminum		NA		FILT	0.081	mg/L C -	UNKN	NA	
Aluminum		NA						0.027	mg/L D J
Arsenic	FILT	0.002	mg/L C U	FILT	0.002	mg/L C U	UNKN	NA	
Arsenic		NA						0.001	mg/L D U
Barium	FILT	0.041	mg/L C -	FILT	0.037	mg/L C -	UNKN	NA	
Barium		NA						0.054	mg/L D -
Cadmium	FILT	0.004	mg/L C -	FILT	0.002	mg/L C U	UNKN	NA	
Cadmium		NA						0.006	mg/L D UJ
Calcium	FILT	84.500	mg/L C -	FILT	80.100	mg/L C -	UNKN	NA	
Calcium		NA						79.600	mg/L D -
Chromium	FILT	0.023	mg/L C -	FILT	0.023	mg/L C -	UNKN	NA	
Chromium		NA						0.004	mg/L D U
Copper	FILT	0.012	mg/L C -	FILT	0.010	mg/L C U	UNKN	NA	
Copper		NA						0.008	mg/L D U
Iron	FILT	0.044	mg/L C -	FILT	0.125	mg/L C -	UNKN	NA	
Iron		NA						0.011	mg/L D U
Lead	FILT	0.006	mg/L C -	FILT	0.002	mg/L C U	UNKN	NA	
Lead		NA						0.001	mg/L D R
Magnesium	FILT	22.100	mg/L C -	FILT	20.700	mg/L C -	UNKN	NA	
Magnesium		NA						20.200	mg/L D -
Manganese	FILT	0.007	mg/L C -	FILT	0.019	mg/L C -	UNKN	NA	
Manganese		NA						0.061	mg/L D -
Mercury	FILT	0.000	mg/L C UJ	FILT	0.002	mg/L C U	UNKN	NA	
Mercury		NA						0.000	mg/L D U
Molybdenum	FILT	0.020	mg/L C U	FILT	0.100	mg/L C U	UNKN	NA	
Molybdenum		NA						0.004	mg/L D J
Nickel	FILT	0.020	mg/L C U	FILT	0.020	mg/L C U	UNKN	NA	
Nickel		NA						0.044	mg/L D U
Potassium	FILT	2.190	mg/L C -	FILT	2.170	mg/L C -	UNKN	NA	
Potassium		NA						2.560	mg/L D -
Selenium	FILT	0.002	mg/L C U	FILT	0.002	mg/L C UJ	UNKN	NA	
Selenium		NA						0.001	mg/L D U
Silicon		NA		FILT	3.040	mg/L C J	UNKN	NA	
Silicon		NA			NA			3.360	mg/L D J
Silver	FILT	0.001	mg/L C U	FILT	0.010	mg/L C U	UNKN	NA	
Silver		NA						0.004	mg/L D U
Sodium	FILT	10.500	mg/L C -	FILT	11.600	mg/L C -	UNKN	NA	
Sodium		NA						12.500	mg/L D -
Vanadium		NA		FILT	0.014	mg/L C -	UNKN	NA	
Vanadium		NA			NA			0.007	mg/L D U
<u>General Chemistry</u>									
Ammonia	UNFI	0.100	mg/L C U	UNFI	0.100	mg/L C U	UNFI	0.070	mg/L C J

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TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	3016 003882	3016 004241	3402 038346			
SAMPLING DATE	02/07/89	03/04/90	04/09/92			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>General Chemistry</u>						
Chloride	UNFI	24.500 mg/L C -	UNFI	8.800 mg/L C -	UNFI	23.000 mg/L C J
Fluoride	UNFI	0.180 mg/L C J	UNFI	0.180 mg/L C -	UNFI	0.100 mg/L C C
Nitrate	UNFI	2.620 mg/L C J	UNFI	2.790 mg/L C J	UNFI	2.700 mg/L C C
Phenols	NA		NA		U	0.010 mg/L C R
Phenols	UNFI	0.010 mg/L C R	UNFI	0.010 mg/L C U	NA	
Phosphorus	UNFI	0.070 mg/L C -	UNFI	0.040 mg/L C -	UNFI	0.130 mg/L C J
Sulfate	UNFI	59.800 mg/L C J	UNFI	51.200 mg/L C J	UNFI	66.000 mg/L C -
Sulfide	NA		NA		U	0.500 mg/L C U
Sulfide	NA		UNFI	0.500 mg/L C R	NA	
Total Kjeldahl Nitrogen	UNFI	0.202 mg/L C J	UNFI	0.100 mg/L C U	NA	
Total Organic Carbon	NA		UNFI	1.360 mg/L C -	NA	
Total Organic Carbon	NA		NA		UNKN	4.000 mg/L C -
Total Organic Halides	NA		NA		U	0.010 mg/L C U
Total Organic Halides	UNFI	0.050 mg/L C U	UNFI	0.010 mg/L C U	NA	
Total Organic Nitrogen	UNFI	0.202 mg/L C J	UNFI	0.100 mg/L C U	UNFI	1.000 mg/L C J

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TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	3402	SAMPLE NUMBER	038384			4016				
SAMPLING DATE	06/10/92					004090				
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>										
Aluminum	UNKN	0.022	mg/L	D	U	FILT	NA	mg/L	C	U
Arsenic	UNKN	NA				FILT	0.002	mg/L	C	U
Arsenic	UNKN	0.001	mg/L	D	U	FILT	NA	mg/L	C	-
Barium	UNKN	NA				FILT	0.038	mg/L	C	-
Barium	UNKN	0.040	mg/L	D	-	FILT	NA	mg/L	C	-
Cadmium	UNKN	NA				FILT	0.004	mg/L	C	-
Cadmium	UNKN	0.006	mg/L	D	U	FILT	NA	mg/L	C	-
Calcium	UNKN	NA				FILT	102.000	mg/L	C	-
Calcium	UNKN	83.400	mg/L	D	-	FILT	NA	mg/L	C	-
Chromium	UNKN	NA				FILT	0.015	mg/L	C	U
Chromium	UNKN	0.004	mg/L	D	U	FILT	NA	mg/L	C	U
Copper	UNKN	NA				FILT	0.010	mg/L	C	U
Copper	UNKN	0.008	mg/L	D	UJ	FILT	NA	mg/L	C	U
Iron	UNKN	NA				FILT	1.240	mg/L	C	-
Iron	UNKN	0.011	mg/L	D	U	FILT	NA	mg/L	C	-
Lead	UNKN	NA				FILT	0.004	mg/L	C	R
Lead	UNKN	0.002	mg/L	D	-	FILT	NA	mg/L	C	-
Magnesium	UNKN	NA				FILT	26.100	mg/L	C	-
Magnesium	UNKN	20.600	mg/L	D	-	FILT	NA	mg/L	C	-
Manganese	UNKN	NA				FILT	0.858	mg/L	C	-
Manganese	UNKN	0.034	mg/L	D	-	FILT	NA	mg/L	C	-
Mercury	UNKN	NA				FILT	0.000	mg/L	C	U
Mercury	UNKN	0.000	mg/L	D	U	FILT	NA	mg/L	C	U
Molybdenum	UNKN	NA				FILT	0.010	mg/L	C	U
Molybdenum	UNKN	0.011	mg/L	D	U	FILT	NA	mg/L	C	U
Nickel	UNKN	NA				FILT	0.020	mg/L	C	U
Nickel	UNKN	0.044	mg/L	D	U	FILT	NA	mg/L	C	U
Potassium	UNKN	NA				FILT	1.200	mg/L	C	-
Potassium	UNKN	2.760	mg/L	D	-	FILT	NA	mg/L	C	-
Selenium	UNKN	NA				FILT	0.002	mg/L	C	R
Selenium	UNKN	0.001	mg/L	D	U	FILT	NA	mg/L	C	R
Silicon	UNKN	3.350	mg/L	D	J	FILT	NA	mg/L	C	-
Silver	UNKN	NA				FILT	0.001	mg/L	C	U
Silver	UNKN	0.004	mg/L	D	U	FILT	NA	mg/L	C	U
Sodium	UNKN	NA				FILT	5.760	mg/L	C	-
Sodium	UNKN	12.400	mg/L	D	-	FILT	NA	mg/L	C	-
Vanadium	UNKN	0.007	mg/L	D	U	FILT	NA	mg/L	C	-
<u>General Chemistry</u>										
Ammonia	UNFI	0.050	mg/L	C	U	UNFI	0.100	mg/L	C	U
Chloride	UNFI	21.000	mg/L	C	J	UNFI	13.000	mg/L	C	-

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TABLE E-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	3402		4016		
SAMPLE NUMBER	038384		004090		
SAMPLING DATE	06/10/92		05/01/89		
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ
<u>General Chemistry</u>					
Fluoride	UNFI	0.100	mg/L	C J	
Nitrate	UNFI	0.100	mg/L	C U	
Phenols	UNFI	0.010	mg/L	C U	
Phosphorus	UNFI	0.020	mg/L	C U	
Sulfate	UNFI	48.000	mg/L	C J	
Sulfide	UNFI	0.500	mg/L	C U	
Total Kjeldahl Nitrogen	NA				
Total Organic Carbon	UNFI	1.000	mg/L	C U	
Total Organic Halides	UNFI	0.020	mg/L	C UJ	
Total Organic Nitrogen	UNFI	1.000	mg/L	C UJ	
				UNFI	0.172 mg/L C -
				NA	
				UNFI	0.010 mg/L C U
				UNFI	0.172 mg/L C J

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TABLE E-12A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1047			2016			2047		
SAMPLE NUMBER	110892			111996			110894		
SAMPLING DATE	04/27/93			04/30/93			04/27/93		
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD
CS-137		NA				NA			FILT
CS-137	UNFI	15.000	pc ¹ /L	UJ	UNFI	13.400	pc ¹ /L	UJ	NA
GROSS ALPHA		NA				NA			7.100
GROSS ALPHA	UNFI	12.000	pc ¹ /L	UJ	UNFI	6.990	pc ¹ /L	J	pc ¹ /L
GROSS BETA		NA				NA			5.400
GROSS BETA	UNFI	11.000	pc ¹ /L	UJ	UNFI	9.340	pc ¹ /L	J	pc ¹ /L
NP-237		NA				NA			0.220
NP-237	UNFI	0.130	pc ¹ /L	U	UNFI	0.710	pc ¹ /L	N	pc ¹ /L
PU-238		NA				NA			0.044
PU-238	UNFI	0.097	pc ¹ /L	UJ	UNFI	0.160	pc ¹ /L	J	pc ¹ /L
PU-239/240		NA				NA			0.091
PU-239/240	UNFI	0.097	pc ¹ /L	UJ	UNFI	0.056	pc ¹ /L	U	pc ¹ /L
RA-226		NA				NA			0.236
RA-226	UNFI	0.674	pc ¹ /L	UJ	UNFI	0.130	pc ¹ /L	UJ	pc ¹ /L
RA-228		NA				NA			5.650
RA-228	UNFI	5.930	pc ¹ /L	J	UNFI	1.310	pc ¹ /L	UJ	pc ¹ /L
RU-106		NA				NA			124.000
RU-106	UNFI	122.000	pc ¹ /L	UJ	UNFI	120.000	pc ¹ /L	UJ	pc ¹ /L
SR-90		NA				NA			0.989
SR-90	UNFI	0.754	pc ¹ /L	UJ	UNFI	0.100	pc ¹ /L	UJ	pc ¹ /L
TC-99		NA				NA			9.700
TC-99	UNFI	10.500	pc ¹ /L	UJ	UNFI	9.000	pc ¹ /L	UJ	pc ¹ /L
TH-228		NA				NA			0.101
TH-228	UNFI	0.132	pc ¹ /L	UJ	UNFI	0.013	pc ¹ /L	UJ	pc ¹ /L
TH-230		NA				NA			0.408
TH-230	UNFI	0.227	pc ¹ /L	J	UNFI	0.800	pc ¹ /L	J	pc ¹ /L
TH-232		NA				NA			0.083
TH-232	UNFI	0.122	pc ¹ /L	UJ	UNFI	0.140	pc ¹ /L	J	pc ¹ /L
TH-TOTAL		NA				NA			0.764
TH-TOTAL	UNFI	1.120	ug/L	UJ	UNFI	1.270	ug/L	J	ug/L
U-234		NA				NA			3.740
U-234	UNFI	2.330	pc ¹ /L	-	UNFI	6.020	pc ¹ /L	-	pc ¹ /L
U-235/236		NA				NA			0.150
U-235/236	UNFI	0.124	pc ¹ /L	UJ	UNFI	0.460	pc ¹ /L	J	pc ¹ /L
U-238		NA				NA			3.380
U-238	UNFI	1.620	pc ¹ /L	-	UNFI	6.500	pc ¹ /L	-	pc ¹ /L
U-TOTAL		NA				NA			9.510
U-TOTAL	UNFI	5.360	ug/L	-	UNFI	17.100	ug/L	-	ug/L

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TABLE E-12A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2402 116225				2402 116226				2955 113801			
SAMPLING DATE	05/05/93				05/05/93				06/22/93			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137		NA			FILT	13.800	pc ⁻¹ /L	UJ	FILT	15.300	pc ⁻¹ /L	UJ
CS-137	UNFI	10.500	pc ⁻¹ /L	UJ		NA			UNFI	11.700	pc ⁻¹ /L	UJ
GROSS ALPHA		NA				NA			FILT	6.140	pc ⁻¹ /L	UJ
GROSS ALPHA	UNFI	9.520	pc ⁻¹ /L	J		NA			UNFI	6.970	pc ⁻¹ /L	J
GROSS BETA		NA				NA			FILT	5.120	pc ⁻¹ /L	J
GROSS BETA	UNFI	7.930	pc ⁻¹ /L	J		NA			UNFI	5.050	pc ⁻¹ /L	J
NP-237		NA			FILT	0.300	pc ⁻¹ /L	N	FILT	0.216	pc ⁻¹ /L	U
NP-237	UNFI	0.280	pc ⁻¹ /L	N		NA			UNFI	0.121	pc ⁻¹ /L	U
PU-238		NA			FILT	0.070	pc ⁻¹ /L	UJ	FILT	0.046	pc ⁻¹ /L	UJ
PU-238	UNFI	0.140	pc ⁻¹ /L	UJ		NA			UNFI	0.106	pc ⁻¹ /L	UJ
PU-239/240		NA			FILT	0.070	pc ⁻¹ /L	UJ	FILT	0.117	pc ⁻¹ /L	UJ
PU-239/240	UNFI	0.060	pc ⁻¹ /L	J		NA			UNFI	0.087	pc ⁻¹ /L	UJ
RA-226		NA			FILT	0.120	pc ⁻¹ /L	UJ	FILT	0.141	pc ⁻¹ /L	J
RA-226	UNFI	0.200	pc ⁻¹ /L	J		NA			UNFI	0.275	pc ⁻¹ /L	J
RA-228		NA			FILT	1.080	pc ⁻¹ /L	UJ	FILT	1.300	pc ⁻¹ /L	UJ
RA-228	UNFI	1.800	pc ⁻¹ /L	UJ		NA			UNFI	1.390	pc ⁻¹ /L	UJ
RU-106		NA			FILT	137.000	pc ⁻¹ /L	UJ	FILT	148.000	pc ⁻¹ /L	UJ
RU-106	UNFI	136.000	pc ⁻¹ /L	UJ		NA			UNFI	109.000	pc ⁻¹ /L	UJ
SR-90		NA			FILT	2.680	pc ⁻¹ /L	U	FILT	0.803	pc ⁻¹ /L	UJ
SR-90	UNFI	0.810	pc ⁻¹ /L	UJ		NA			UNFI	0.794	pc ⁻¹ /L	UJ
TC-99		NA			FILT	11.300	pc ⁻¹ /L	UJ	FILT	10.300	pc ⁻¹ /L	UJ
TC-99	UNFI	10.800	pc ⁻¹ /L	UJ		NA			UNFI	10.600	pc ⁻¹ /L	UJ
TH-228		NA			FILT	0.210	pc ⁻¹ /L	-	FILT	0.249	pc ⁻¹ /L	UJ
TH-228	UNFI	0.170	pc ⁻¹ /L	UJ		NA			UNFI	0.186	pc ⁻¹ /L	UJ
TH-230		NA			FILT	0.180	pc ⁻¹ /L	-	FILT	0.086	pc ⁻¹ /L	U
TH-230	UNFI	0.320	pc ⁻¹ /L	J		NA			UNFI	0.277	pc ⁻¹ /L	J
TH-232		NA			FILT	0.190	pc ⁻¹ /L	UJ	FILT	0.226	pc ⁻¹ /L	UJ
TH-232	UNFI	0.150	pc ⁻¹ /L	UJ		NA			UNFI	0.100	pc ⁻¹ /L	UJ
TH-TOTAL		NA			FILT	1.750	ug/L	UJ	FILT	2.080	ug/L	UJ
TH-TOTAL	UNFI	1.350	ug/L	UJ		NA			UNFI	0.920	ug/L	UJ
U-234		NA			FILT	4.540	pc ⁻¹ /L	-	FILT	2.570	pc ⁻¹ /L	-
U-234	UNFI	2.170	pc ⁻¹ /L	-		NA			UNFI	2.990	pc ⁻¹ /L	-
U-235/236		NA			FILT	0.160	pc ⁻¹ /L	-	FILT	0.103	pc ⁻¹ /L	J
U-235/236	UNFI	0.150	pc ⁻¹ /L	J		NA			UNFI	0.698	pc ⁻¹ /L	J
U-238		NA			FILT	5.890	pc ⁻¹ /L	-	FILT	2.750	pc ⁻¹ /L	-
U-238	UNFI	3.180	pc ⁻¹ /L	-		NA			UNFI	3.010	pc ⁻¹ /L	-
U-TOTAL		NA			FILT	15.200	ug/L	-	FILT	8.110	ug/L	-
U-TOTAL	UNFI	5.620	ug/L	-		NA			UNFI	8.190	ug/L	-

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TABLE E-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1047			2016			2047				
SAMPLE NUMBER	110892			111996			110894				
SAMPLING DATE	04/27/93			04/30/93			04/27/93				
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Inorganics</u>											
Aluminum	FILT	0.083	mg/L	C	U	UNFI	NA	0.366	mg/L	C	-
Aluminum	FILT	NA				UNFI	NA	0.001	mg/L	C	U
Antimony	FILT	0.001	mg/L	C	U	UNFI	0.001	mg/L	C	UJ	
Antimony	FILT	NA				UNFI	NA	0.001	mg/L	C	U
Arsenic	FILT	0.001	mg/L	C	U	UNFI	0.001	mg/L	C	U	
Arsenic	FILT	NA				UNFI	NA	0.001	mg/L	C	-
Barium	FILT	0.046	mg/L	C	-	UNFI	NA	0.048	mg/L	C	J
Barium	FILT	NA				UNFI	NA	0.002	mg/L	C	U
Beryllium	FILT	0.003	mg/L	C	U	UNFI	NA	0.002	mg/L	C	U
Beryllium	FILT	NA				UNFI	NA	0.002	mg/L	C	U
Cadmium	FILT	0.002	mg/L	C	U	UNFI	NA	0.002	mg/L	C	U
Cadmium	FILT	NA				UNFI	NA	0.002	mg/L	C	-
Calcium	FILT	112.000	mg/L	C	-	UNFI	NA	90.400	mg/L	C	-
Calcium	FILT	NA				UNFI	NA	0.004	mg/L	C	U
Chromium	FILT	0.004	mg/L	C	U	UNFI	NA	0.004	mg/L	C	U
Chromium	FILT	NA				UNFI	NA	0.003	mg/L	C	U
Cobalt	FILT	0.003	mg/L	C	U	UNFI	NA	0.003	mg/L	C	U
Cobalt	FILT	NA				UNFI	NA	0.003	mg/L	C	-
Copper	FILT	0.009	mg/L	C	U	UNFI	NA	0.007	mg/L	C	U
Copper	FILT	NA				UNFI	NA	0.001	mg/L	C	U
Cyanide	UNFI	0.001	mg/L	C	U	UNFI	NA	0.001	mg/L	C	U
Iron	FILT	0.031	mg/L	C	U	UNFI	NA	0.865	mg/L	C	-
Iron	FILT	NA				UNFI	NA	0.001	mg/L	C	U
Lead	FILT	0.001	mg/L	C	U	UNFI	NA	0.001	mg/L	C	-
Lead	FILT	NA				UNFI	NA	27.400	mg/L	C	-
Magnesium	FILT	50.600	mg/L	C	-	UNFI	NA	23.600	mg/L	C	-
Magnesium	FILT	NA				UNFI	NA	0.026	mg/L	C	-
Manganese	FILT	0.002	mg/L	C	U	UNFI	NA	0.000	mg/L	C	U
Manganese	FILT	NA				UNFI	NA	0.003	mg/L	C	U
Mercury	FILT	0.000	mg/L	C	U	UNFI	NA	0.003	mg/L	C	U
Mercury	FILT	NA				UNFI	NA	0.000	mg/L	C	-
Molybdenum	FILT	0.005	mg/L	C	-	UNFI	NA	0.003	mg/L	C	U
Molybdenum	FILT	NA				UNFI	NA	0.003	mg/L	C	U
Nickel	FILT	0.003	mg/L	C	U	UNFI	NA	0.003	mg/L	C	U
Nickel	FILT	NA				UNFI	NA	0.003	mg/L	C	-
Potassium	FILT	1.500	mg/L	C	-	UNFI	NA	0.003	mg/L	C	U
Potassium	FILT	NA				UNFI	NA	2.610	mg/L	C	-
Selenium	FILT	0.001	mg/L	C	UJ	UNFI	NA	0.001	mg/L	C	U
Selenium	FILT	NA				UNFI	NA	0.001	mg/L	C	U
Silicon	FILT	6.220	mg/L	C	-	UNFI	NA	3.450	mg/L	C	-
Silicon	FILT	NA				UNFI	NA	4.100	mg/L	C	-
Silver	FILT	0.002	mg/L	C	U	UNFI	NA	0.002	mg/L	C	U

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(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1047 110892			2016 111996			2047 110894		
SAMPLING DATE	04/27/93			04/30/93			04/27/93		
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ
<u>Inorganics</u>									
Silver		NA		UNFI	0.002	mg/L C U		NA	
Sodium	FILT	40.900	mg/L C -	UNFI	NA		FILT	11.000	mg/L C -
Sodium		NA		UNFI	12.100	mg/L C -		NA	
Thallium	FILT	0.001	mg/L C U	UNFI	NA		FILT	0.001	mg/L C U
Thallium		NA		UNFI	0.001	mg/L C U		NA	
Vanadium	FILT	0.010	mg/L C U	UNFI	NA		FILT	0.011	mg/L C U
Vanadium		NA		UNFI	0.007	mg/L C U		NA	
Zinc	FILT	0.007	mg/L C -	UNFI	NA		FILT	0.004	mg/L C -
Zinc		NA		UNFI	0.014	mg/L C U		NA	
<u>Volatile Organics</u>									
1,1,1-Trichloroethane	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
1,1,2,2-Tetrachloroethane	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
1,1,2-Trichloroethane	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
1,1-Dichloroethane	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
1,1-Dichloroethene	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
1,2-Dichloroethane	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
1,2-Dichloroethene	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
1,2-Dichloropropane	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
2-Butanone	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
2-Hexanone	UNFI	10.000	ug/L C UJ	UNFI	10.000	ug/L C UJ	UNFI	10.000	ug/L C UJ
4-Methyl-2-pentanone	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Acetone	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	1.000	ug/L C U
Benzene	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Bromodichloromethane	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Bromoform	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Bromomethane	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Carbon Tetrachloride	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Carbon disulfide	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C UJ	UNFI	10.000	ug/L C U
Chlorobenzene	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Chloroethane	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C UJ	UNFI	10.000	ug/L C U
Chloroform	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Chloromethane	UNFI	10.000	ug/L C UJ	UNFI	10.000	ug/L C UJ	UNFI	10.000	ug/L C UJ
Dibromochloromethane	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Ethylbenzene	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Methylene chloride	UNFI	10.000	ug/L C UJ	UNFI	12.000	ug/L C UJ	UNFI	10.000	ug/L C UJ
Styrene	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Tetrachloroethene	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Toluene	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Trichloroethene	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Vinyl Acetate	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U

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TABLE E-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1047				2016				2047						
SAMPLE NUMBER	110892				111996				110894						
SAMPLING DATE	04/27/93				04/30/93				04/27/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>															
Vinyl chloride	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	UJ
Xylenes, Total	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	UJ
cis-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
trans-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
<u>Semivolatile Organics</u>															
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,2-Dichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,3-Dichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,4-Dichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,4,5-Trichlorophenol	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U
2,4,6-Trichlorophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,4-Dichlorophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,4-Dimethylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,4-Dinitrophenol	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U
2,4-Dinitrotoluene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,6-Dinitrotoluene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Chloronaphthalene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Chlorophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Methylnaphthalene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Methylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Nitroaniline	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U
2-Nitrophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
3,3'-Dichlorobenzidine	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
3-Nitroaniline	UNFI	25.000	ug/L	C	UJ	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U
4,6-Dinitro-2-methylphenol	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	R	UNFI	25.000	ug/L	C	U
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
4-Methylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
4-Nitroaniline	UNFI	25.000	ug/L	C	R	UNFI	25.000	ug/L	C	R	UNFI	25.000	ug/L	C	R
4-Nitrophenol	UNFI	25.000	ug/L	C	R	UNFI	25.000	ug/L	C	R	UNFI	25.000	ug/L	C	R
Acenaphthene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Acenaphthylene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Anthracene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(a)anthracene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(a)pyrene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(b)fluoranthene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(g,h,i)perylene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(k)fluoranthene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzoic acid	UNFI	50.000	ug/L	C	U	UNFI	50.000	ug/L	C	R	UNFI	50.000	ug/L	C	U

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(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1047 110892			2016 111996			2047 110894		
SAMPLING DATE	04/27/93			04/30/93			04/27/93		
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ
<u>Semivolatile Organics</u>									
Benzyl alcohol	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C UJ	UNFI	10.000	ug/L C U
Butyl benzyl phthalate	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C UJ	UNFI	10.000	ug/L C U
Carbazole	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Chrysene	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
D1-n-butyl phthalate	UNFI	10.000	ug/L C UJ	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C UJ
D1-n-octyl phthalate	UNFI	10.000	ug/L C UJ	UNFI	10.000	ug/L C R	UNFI	10.000	ug/L C UJ
Dibenzo(a,h)anthracene	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C UJ	UNFI	10.000	ug/L C U
Dibenzofuran	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Diethyl phthalate	UNFI	10.000	ug/L C UJ	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C UJ
Dimethyl phthalate	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Fluoranthene	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Fluorene	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Hexachlorobenzene	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C UJ	UNFI	10.000	ug/L C U
Hexachlorobutadiene	UNFI	10.000	ug/L C UJ	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C UJ
Hexachlorocyclopentadiene	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C UJ	UNFI	10.000	ug/L C U
Hexachloroethane	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Indeno(1,2,3-cd)pyrene	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C UJ	UNFI	10.000	ug/L C U
Isophorone	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
N-Nitroso-di-n-propylamine	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
N-Nitrosodiphenylamine	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Naphthalene	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Nitrobenzene	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Pentachlorophenol	UNFI	25.000	ug/L C U	UNFI	25.000	ug/L C UJ	UNFI	25.000	ug/L C U
Phenanthrene	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Phenol	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Pyrene	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
bis(2-Chloroethoxy)methane	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
bis(2-Chloroethyl)ether	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
bis(2-Chloroisopropyl) ether	UNFI	10.000	ug/L C UJ	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C UJ
bis(2-Ethylhexyl) phthalate	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C UJ	UNFI	10.000	ug/L C U
p-Chloroaniline	UNFI	10.000	ug/L C R	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C R
<u>Pesticide Organics/PCBs</u>									
4,4'-DDD	UNFI	0.100	ug/L C U	UNFI	0.100	ug/L C U	UNFI	0.100	ug/L C U
4,4'-DDE	UNFI	0.100	ug/L C U	UNFI	0.100	ug/L C U	UNFI	0.100	ug/L C U
4,4'-DDT	UNFI	0.100	ug/L C U	UNFI	0.100	ug/L C U	UNFI	0.100	ug/L C U
Aldrin	UNFI	0.050	ug/L C U	UNFI	0.050	ug/L C U	UNFI	0.050	ug/L C U
Aroclor-1016	UNFI	1.000	ug/L C U	UNFI	1.000	ug/L C U	UNFI	1.000	ug/L C U
Aroclor-1221	UNFI	2.000	ug/L C U	UNFI	2.000	ug/L C U	UNFI	2.000	ug/L C U
Aroclor-1232	UNFI	1.000	ug/L C U	UNFI	1.000	ug/L C U	UNFI	1.000	ug/L C U
Aroclor-1242	UNFI	1.000	ug/L C U	UNFI	1.000	ug/L C U	UNFI	1.000	ug/L C U

TABLE E-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1047	2016				2047									
SAMPLE NUMBER	110892	111996				110894									
SAMPLING DATE	04/27/93	04/30/93				04/27/93									
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Pesticide Organics/PCBs</u>															
Aroclor-1248	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U
Aroclor-1254	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U
Aroclor-1260	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U
Dieldrin	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Endosulfan II	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Endosulfan sulfate	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Endosulfan-I	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
Endrin	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Endrin aldehyde	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Endrin ketone	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Heptachlor	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
Heptachlor epoxide	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
Methoxychlor	UNFI	0.500	ug/L	C	U	UNFI	0.500	ug/L	C	U	UNFI	0.500	ug/L	C	U
Toxaphene	UNFI	5.000	ug/L	C	U	UNFI	5.000	ug/L	C	U	UNFI	5.000	ug/L	C	U
alpha-BHC	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
alpha-Chlordane	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
beta-BHC	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
delta-BHC	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
gamma-BHC (Lindane)	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
gamma-Chlordane	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
<u>General Chemistry</u>															
Alkalinity	UNFI	360.000	mg/kg	B	-	UNFI	245.000	mg/L	B	-	NA	224.000	mg/L	B	-
Alkalinity as CaCO ₃		NA					NA				UNFI	0.100	mg/L	B	-
Ammonia	UNFI	0.100	mg/kg	B	U	UNFI	0.100	mg/L	B	U	UNFI	24.480	mg/L	B	-
Chloride	UNFI	3.850	mg/kg	B	-	UNFI	28.350	mg/L	B	-	UNFI	0.200	mg/L	B	-
Fluoride	UNFI	0.470	mg/kg	B	-	UNFI	0.200	mg/L	B	-	UNFI	1.720	mg/L	B	-
Nitrate	UNFI	0.100	mg/kg	B	R	UNFI	2.320	mg/L	B	R	UNFI	0.010	mg/L	B	U
Phenols	UNFI	0.010	mg/kg	B	U	UNFI	0.010	mg/L	B	U	UNFI	0.020	mg/L	B	U
Phosphorus	UNFI	0.640	mg/kg	B	-	UNFI	NA				UNFI	80.800	mg/L	B	-
Sulfate	UNFI	166.900	mg/kg	B	-	UNFI	84.100	mg/L	B	-	UNFI	0.500	mg/L	B	-
Sulfide	UNFI	0.500	mg/kg	B	U	UNFI	0.500	mg/L	B	U	UNFI	0.100	mg/L	B	U
Total Kjeldahl Nitrogen	UNFI	0.410	mg/kg	B	-	UNFI	0.120	mg/L	B	-	UNFI	1.000	mg/L	B	U
Total Organic Carbon	UNFI	1.190	mg/kg	B	-	UNFI	1.120	mg/L	B	-	UNFI	0.010	mg/L	B	U
Total Organic Halides	UNFI	10.000	mg/kg	B	U	UNFI	0.010	mg/L	B	U	UNFI	0.100	mg/L	B	U
Total Organic Nitrogen	UNFI	0.410	mg/kg	B	-	UNFI	0.120	mg/L	B	-	UNFI	0.010	mg/L	B	U
Total Phosphorous		NA				UNFI	0.060	mg/L	B	-	NA				

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January 21, 1995

TABLE E-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2402 116225				2402 116226				2955 113801			
SAMPLING DATE	05/05/93				05/05/93				06/22/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Inorganics</u>												
Aluminum		NA			FILT	0.068	mg/L	C U	FILT	0.122	mg/L	C U
Aluminum	UNFI	0.676	mg/L	C -	FILT	NA			UNFI	0.173	mg/L	C U
Antimony		NA			FILT	0.004	mg/L	C UJ	FILT	0.005	mg/L	C U
Antimony	UNFI	0.003	mg/L	C UJ	FILT	NA			UNFI	0.005	mg/L	C U
Arsenic		NA			FILT	0.001	mg/L	C U	FILT	0.002	mg/L	C U
Arsenic	UNFI	0.002	mg/L	C -	FILT	NA			UNFI	0.002	mg/L	C U
Barium		NA			FILT	0.049	mg/L	C -	FILT	0.046	mg/L	C -
Barium	UNFI	0.047	mg/L	C -	FILT	NA			UNFI	0.046	mg/L	C -
Beryllium		NA			FILT	0.001	mg/L	C U	FILT	0.002	mg/L	C U
Beryllium	UNFI	0.001	mg/L	C U	FILT	NA			UNFI	0.002	mg/L	C U
Cadmium		NA			FILT	0.002	mg/L	C U	FILT	0.005	mg/L	C U
Cadmium	UNFI	0.002	mg/L	C U	FILT	NA			UNFI	0.005	mg/L	C U
Calcium		NA			FILT	83.700	mg/L	C -	FILT	97.800	mg/L	C -
Calcium	UNFI	89.500	mg/L	C -	FILT	NA			UNFI	98.400	mg/L	C -
Chromium		NA			FILT	0.004	mg/L	C U	FILT	0.010	mg/L	C U
Chromium	UNFI	0.005	mg/L	C -	FILT	NA			UNFI	0.010	mg/L	C U
Cobalt		NA			FILT	0.003	mg/L	C U	FILT	0.010	mg/L	C U
Cobalt	UNFI	0.003	mg/L	C U	FILT	NA			UNFI	0.010	mg/L	C U
Copper		NA			FILT	0.002	mg/L	C U	FILT	0.010	mg/L	C U
Copper	UNFI	0.011	mg/L	C U	FILT	NA			UNFI	0.010	mg/L	C U
Cyanide		NA			FILT	0.001	mg/L	C R	NA			
Cyanide	UNFI	0.001	mg/L	C U	FILT	NA			UNFI	0.002	mg/L	C U
Iron		NA			FILT	0.098	mg/L	C U	FILT	0.020	mg/L	C U
Iron	UNFI	2.670	mg/L	C -	FILT	NA			UNFI	0.206	mg/L	C -
Lead		NA			FILT	0.001	mg/L	C U	FILT	0.002	mg/L	C U
Lead	UNFI	0.004	mg/L	C -	FILT	NA			UNFI	0.002	mg/L	C U
Magnesium		NA			FILT	23.500	mg/L	C -	FILT	25.500	mg/L	C -
Magnesium	UNFI	26.900	mg/L	C -	FILT	NA			UNFI	25.700	mg/L	C -
Manganese		NA			FILT	0.005	mg/L	C U	FILT	0.010	mg/L	C U
Manganese	UNFI	0.068	mg/L	C -	FILT	NA			UNFI	0.010	mg/L	C U
Mercury		NA			FILT	0.000	mg/L	C U	FILT	0.000	mg/L	C U
Mercury	UNFI	0.000	mg/L	C U	FILT	NA			UNFI	0.000	mg/L	C U
Molybdenum		NA			FILT	0.003	mg/L	C U	FILT	0.010	mg/L	C U
Molybdenum	UNFI	0.005	mg/L	C U	FILT	NA			UNFI	0.010	mg/L	C U
Nickel		NA			FILT	0.003	mg/L	C U	FILT	0.020	mg/L	C U
Nickel	UNFI	0.007	mg/L	C -	FILT	NA			UNFI	0.020	mg/L	C U
Potassium		NA			FILT	2.750	mg/L	C -	FILT	2.390	mg/L	C -
Potassium	UNFI	2.520	mg/L	C -	FILT	NA			UNFI	2.260	mg/L	C -
Selenium		NA			FILT	0.001	mg/L	C U	FILT	0.002	mg/L	C UJ
Selenium	UNFI	0.001	mg/L	C U	FILT	NA			UNFI	0.002	mg/L	C U
Silicon		NA			FILT	3.300	mg/L	C -	FILT	4.220	mg/L	C -
Silicon	UNFI	3.770	mg/L	C -	FILT	NA			UNFI	4.300	mg/L	C -

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TABLE E-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2402 116225				2402 116226				2955 113801						
SAMPLE NUMBER	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>															
Silver		NA				FILT	0.002	mg/L	C	U	FILT	0.010	mg/L	C	U
Silver	UNFI	0.002	mg/L	C	U		NA				UNFI	0.010	mg/L	C	U
Sodium		NA				FILT	11.400	mg/L	C	-	FILT	12.900	mg/L	C	-
Sodium	UNFI	8.970	mg/L	C	-		NA				UNFI	12.700	mg/L	C	-
Thallium		NA				FILT	0.001	mg/L	C	U	FILT	0.002	mg/L	C	U
Thallium	UNFI	0.001	mg/L	C	U		NA				UNFI	0.010	mg/L	C	U
Vanadium		NA				FILT	0.005	mg/L	C	U	FILT	0.010	mg/L	C	U
Vanadium	UNFI	0.010	mg/L	C	U		NA				UNFI	0.010	mg/L	C	U
Zinc		NA				FILT	0.005	mg/L	C	U	FILT	0.005	mg/L	C	U
Zinc	UNFI	0.041	mg/L	C	-		NA				UNFI	0.007	mg/L	C	-
<u>Volatile Organics</u>															
1,1,1-Trichloroethane	UNFI	10.000	ug/L	C	U		NA				UNFI	1.000	ug/L	C	J
1,1,2,2-Tetrachloroethane	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	J
1,1,2-Trichloroethane	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	J
1,1-Dichloroethane	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	J
1,1-Dichloroethene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	J
1,2-Dichloroethane	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	J
1,2-Dichloroethene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	J
1,2-Dichloropropane	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	J
2-Butanone	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	J
2-Hexanone	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	J
4-Methyl-2-pentanone	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	J
Acetone	UNFI	3.000	ug/L	C	R		NA				UNFI	10.000	ug/L	C	J
Benzene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	J
Bromodichloromethane	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	J
Bromoform	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	J
Bromomethane	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	J
Carbon Tetrachloride	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	J
Carbon disulfide	UNFI	26.000	ug/L	C	J		NA				UNFI	10.000	ug/L	C	J
Chlorobenzene	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	J
Chloroethane	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	J
Chloroform	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	J
Chloromethane	UNFI	10.000	ug/L	C	R		NA				UNFI	10.000	ug/L	C	J
Dibromochloromethane	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	J
Ethylbenzene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	J
Methylene chloride	UNFI	10.000	ug/L	C	UJ		NA				UNFI	16.000	ug/L	C	J
Styrene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	J
Tetrachloroethene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	J
Toluene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	J
Trichloroethene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	J

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000254

TABLE E-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2402 116225				2402 116226				2955 113801						
SAMPLING DATE	05/05/93				05/05/93				06/22/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>															
Vinyl Acetate	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	U
Vinyl chloride	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	U
Xylenes, Total	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
cis-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
trans-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
<u>Semivolatile Organics</u>															
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
1,2-Dichlorobenzene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
1,3-Dichlorobenzene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
1,4-Dichlorobenzene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2,4,5-Trichlorophenol	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
2,4,6-Trichlorophenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2,4-Dichlorophenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2,4-Dimethylphenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2,4-Dinitrophenol	UNFI	25.000	ug/L	C	R		NA				UNFI	50.000	ug/L	C	U
2,4-Dinitrotoluene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2,6-Dinitrotoluene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2-Benzyl-4-chlorophenol		NA					NA				UNFI	10.000	ug/L	C	U
2-Chloronaphthalene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2-Chlorophenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2-Methylnaphthalene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2-Methylphenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2-Nitroaniline	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
2-Nitrophenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
3,3'-Dichlorobenzidine	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
3-Nitroaniline	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
4,6-Dinitro-2-methylphenol	UNFI	25.000	ug/L	C	UJ		NA				UNFI	25.000	ug/L	C	U
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
4-Methylphenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
4-Nitroaniline	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
4-Nitrophenol	UNFI	25.000	ug/L	C	UJ		NA				UNFI	25.000	ug/L	C	U
Acenaphthene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Acenaphthylene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Anthracene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Benzo(a)anthracene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Benzo(a)pyrene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Benzo(b)fluoranthene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Benzo(g,h,i)perylene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U

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00025

TABLE E-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2402				2402				2955						
SAMPLE NUMBER	116225				116226				113801						
SAMPLING DATE	05/05/93				05/05/93				06/22/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>															
Benzo(k)fluoranthene	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
Benzoic acid	UNFI	50.000	ug/L	C	R		NA			UNFI	50.000	ug/L	C	U	
Benzyl alcohol	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L	C	U	
Butyl benzyl phthalate	UNFI	10.000	ug/L	C	U		NA			UNFI	1.000	ug/L	C	J	
Carbazole	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
Chrysene	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
Di-n-butyl phthalate	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
Di-n-octyl phthalate	UNFI	10.000	ug/L	C	R		NA			UNFI	10.000	ug/L	C	U	
Dibenzo(a,h)anthracene	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L	C	U	
Dibenzofuran	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
Diethyl phthalate	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
Dimethyl phthalate	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
Fluoranthene	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
Fluorene	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
Hexachlorobenzene	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
Hexachlorobutadiene	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
Hexachlorocyclopentadiene	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
Hexachloroethane	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
Indeno(1,2,3-cd)pyrene	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	UJ	
Isophorone	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
N-Nitroso-di-n-propylamine	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
N-Nitrosodimethylamine		NA					NA			UNFI	10.000	ug/L	C	U	
N-Nitrosodiphenylamine	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
Naphthalene	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
Nitrobenzene	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
Pentachlorophenol	UNFI	25.000	ug/L	C	U		NA			UNFI	25.000	ug/L	C	UJ	
Phenanthrone	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
Phenol	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
Pyrene	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
Tributyl phosphate		NA					NA			UNFI	10.000	ug/L	C	U	
bis(2-Chloroethoxy)methane	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
bis(2-Chloroethyl)ether	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
bis(2-Chloroisopropyl) ether	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
bis(2-Ethylhexyl) phthalate	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L	C	U	
p-Chloroaniline	UNFI	10.000	ug/L	C	U		NA			UNFI	10.000	ug/L	C	U	
<u>Pesticide Organics/PCBs</u>															
4,4'-DDD	UNFI	0.100	ug/L	C	U		NA			UNFI	0.100	ug/L	C	U	
4,4'-DDE	UNFI	0.100	ug/L	C	U		NA			UNFI	0.100	ug/L	C	U	
4,4'-DDT	UNFI	0.100	ug/L	C	UJ		NA			UNFI	0.100	ug/L	C	U	
Aldrin	UNFI	0.050	ug/L	C	U		NA			UNFI	0.050	ug/L	C	U	

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000250

TABLE E-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2402	2402	2955			
SAMPLE NUMBER	116225	116226	113801			
SAMPLING DATE	05/05/93	05/05/93	06/22/93			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Pesticide Organics/PCBs</u>						
Aroclor-1016	UNFI	1.000 ug/L C U	NA	UNFI	1.000 ug/L C U	
Aroclor-1221	UNFI	2.000 ug/L C U	NA	UNFI	2.000 ug/L C U	
Aroclor-1232	UNFI	1.000 ug/L C U	NA	UNFI	1.000 ug/L C U	
Aroclor-1242	UNFI	1.000 ug/L C U	NA	UNFI	1.000 ug/L C U	
Aroclor-1248	UNFI	1.000 ug/L C U	NA	UNFI	1.000 ug/L C U	
Aroclor-1254	UNFI	1.000 ug/L C U	NA	UNFI	1.000 ug/L C U	
Aroclor-1260	UNFI	1.000 ug/L C U	NA	UNFI	1.000 ug/L C U	
Dieldrin	UNFI	0.100 ug/L C U	NA	UNFI	0.100 ug/L C U	
Endosulfan II	UNFI	0.100 ug/L C U	NA	UNFI	0.100 ug/L C U	
Endosulfan sulfate	UNFI	0.100 ug/L C U	NA	UNFI	0.100 ug/L C U	
Endosulfan-I	UNFI	0.050 ug/L C U	NA	UNFI	0.050 ug/L C U	
Endrin	UNFI	0.100 ug/L C U	NA	UNFI	0.100 ug/L C U	
Endrin aldehyde	UNFI	0.100 ug/L C U	NA	UNFI	0.100 ug/L C U	
Endrin ketone	UNFI	0.100 ug/L C U	NA	UNFI	0.100 ug/L C U	
Heptachlor	UNFI	0.050 ug/L C U	NA	UNFI	0.050 ug/L C U	
Heptachlor epoxide	UNFI	0.050 ug/L C U	NA	UNFI	0.050 ug/L C U	
Methoxychlor	UNFI	0.500 ug/L C U	NA	UNFI	0.500 ug/L C U	
Toxaphene	UNFI	5.000 ug/L C U	NA	UNFI	5.000 ug/L C U	
alpha-BHC	UNFI	0.050 ug/L C UJ	NA	UNFI	0.050 ug/L C U	
alpha-Chlordane	UNFI	0.050 ug/L C U	NA	UNFI	0.050 ug/L C U	
beta-BHC	UNFI	0.050 ug/L C U	NA	UNFI	0.050 ug/L C U	
delta-BHC	UNFI	0.050 ug/L C UJ	NA	UNFI	0.050 ug/L C U	
gamma-BHC (Lindane)	UNFI	0.050 ug/L C UJ	NA	UNFI	0.050 ug/L C U	
gamma-Chlordane	UNFI	0.050 ug/L C U	NA	UNFI	0.050 ug/L C U	
<u>General Chemistry</u>						
Alkalinity	UNFI	209.900 mg/L B -	NA	UNFI	258.000 mg/L B -	
Ammonia	UNFI	0.100 mg/L B U	NA	UNFI	0.100 mg/L B U	
Chloride	UNFI	20.280 mg/L B -	NA	UNFI	29.100 mg/L B -	
Fluoride	UNFI	0.280 mg/L B -	NA	UNFI	0.220 mg/L B -	
Nitrate	UNFI	2.460 mg/L B J	NA	UNFI	2.290 mg/L B J	
Phenols	UNFI	0.010 mg/L B U	NA	UNFI	0.010 mg/L B U	
Sulfate	UNFI	68.500 mg/L B -	NA	UNFI	72.700 mg/L B -	
Sulfide	UNFI	0.500 mg/L B U	NA	UNFI	0.500 mg/L B U	
Total Kjeldahl Nitrogen	UNFI	3.010 mg/L B -	NA	UNFI	0.120 mg/L B -	
Total Organic Carbon	UNFI	1.000 mg/L B U	NA	UNFI	1.000 mg/L B U	
Total Organic Halides	UNFI	0.011 mg/L B J	NA	UNFI	0.010 mg/L B R	
Total Organic Nitrogen	UNFI	2.900 mg/L B -	NA	UNFI	0.120 mg/L B -	
Total Phosphorous	UNFI	0.140 mg/L B -	NA	UNFI	0.020 mg/L B U	

TABLE E-12B
INACTIVE FLYASH PILE
TENTATIVELY IDENTIFIED COMPOUNDS
WATER

Sample Number	Sample Location	Media	Parameter	Result	Units
110346	RINSATE	SW	1,2-benzenedicarboxylic acid	3	ug/L
110422	TRIP BLANK	TB	1,2-benzenedicarboxylic acid	3	ug/L
111820	SW-04	SW	2-hexenal, (E)-	7	ug/L
110892	1047	GW	benzene, 1,1-sulfonylbis[4-	5	ug/L
110892	1047	GW	acetic acid, (triphenylphosp	15	ug/L
113801	2955	GW	silanol, trimethyl-	5	ug/L
113801	2955	GW	ethene, 1,1'-oxybis-	4	ug/L

TB - trip blank

SW - surface water

GW - groundwater

TABLE E-13

TABLE E-13
INACTIVE FLYASH PILE
RI/FS TCLP SAMPLES
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1708			1708			1708					
SAMPLE NUMBER	067115			067118			067099					
SAMPLING DATE	06/17/91			06/17/91			12-13.5					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS			
Inorganics												
Arsenic	0.099	mg/L	C	-	0.050	mg/L	C	UJ	0.075	mg/L	C	J
Barium	1.279	mg/L	C	J	0.156	mg/L	C	JB	1.907	mg/L	C	-
Cadmium	0.007	mg/L	C	J	0.014	mg/L	C	JB	0.012	mg/L	C	J
Chromium	0.088	mg/L	C	-	0.084	mg/L	C	JB	0.069	mg/L	C	-
Cyanide	NA				0.123	mg/kg	C	-	NA			
Lead	0.083	mg/L	C	-	0.098	mg/L	C	JB	0.099	mg/L	C	-
Mercury	0.000	mg/L	C	U	0.000	mg/L	C	U	0.000	mg/L	C	U
Selenium	0.187	mg/L	C	-	0.112	mg/L	C	JB	0.182	mg/L	C	-
Silver	0.075	mg/L	C	-	0.073	mg/L	C	JB	0.053	mg/L	C	-
Volatile Organics												
1,1-Dichloroethene	5.000	ug/L	C	U	NA				NA			
1,2-Dichloroethane	5.000	ug/L	C	U	NA				NA			
2-Butanone	2.000	ug/L	C	J	NA				NA			
Benzene	5.000	ug/L	C	U	NA				NA			
Carbon Tetrachloride	5.000	ug/L	C	U	NA				NA			
Chlorobenzene	5.000	ug/L	C	U	NA				NA			
Chloroform	5.000	ug/L	C	U	NA				NA			
Pyridine	20.000	ug/L	C	R	NA				20.000	ug/L	C	U
Tetrachloroethene	5.000	ug/L	C	U	NA				NA			
Trichloroethene	5.000	ug/L	C	U	NA				NA			
Vinyl chloride	10.000	ug/L	C	U	NA				NA			
Semivolatile Organics												
1,4-Dichlorobenzene	20.000	ug/L	C	R	NA				20.000	ug/L	C	U
2,4,5-Trichlorophenol	100.000	ug/L	C	R	NA				100.000	ug/L	C	U
2,4,6-Trichlorophenol	20.000	ug/L	C	R	NA				20.000	ug/L	C	U
2,4-Dinitrotoluene	20.000	ug/L	C	R	NA				20.000	ug/L	C	U
2-Methylphenol	20.000	ug/L	C	R	NA				20.000	ug/L	C	U
3-Methylphenol	20.000	ug/L	C	R	NA				20.000	ug/L	C	U
4-Methylphenol	20.000	ug/L	C	R	NA				20.000	ug/L	C	U
Hexachlorobenzene	20.000	ug/L	C	R	NA				20.000	ug/L	C	U
Hexachlorobutadiene	20.000	ug/L	C	R	NA				20.000	ug/L	C	U
Hexachloroethane	20.000	ug/L	C	R	NA				20.000	ug/L	C	U
Nitrobenzene	20.000	ug/L	C	R	NA				20.000	ug/L	C	U
Pentachlorophenol	100.000	ug/L	C	R	NA				100.000	ug/L	C	U
Herbicide Organics												
2,4,5-TP (Silvex)	1.800	ug/L	C	U	NA				2.100	ug/L	C	U

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TABLE E-13
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1708 067115	1708 067118	1708 067099 12-13.5 06/16/91
SAMPLING DATE	06/17/91	06/17/91	
CHEMICAL PARAMETERS	RESULTS UNITS L VQ	RESULTS UNITS L VQ	RESULTS UNITS L VQ
<u>Herbicide Organics</u>			
2,4-D	10.000 ug/L C U	NA	11.000 ug/L C U
<u>Pesticide Organics/PCBs</u>			
Endrin	0.100 ug/L C U	NA	0.100 ug/L C U
Heptachlor	0.050 ug/L C U	NA	0.050 ug/L C U
Heptachlor epoxide	0.050 ug/L C U	NA	0.050 ug/L C U
Methoxychlor	0.500 ug/L C U	NA	0.500 ug/L C U
Toxaphene	1.000 ug/L C U	NA	1.000 ug/L C U
alpha-Chlordane	0.500 ug/L C U	NA	0.500 ug/L C U
gamma-BHC (Lindane)	0.050 ug/L C U	NA	0.050 ug/L C U
gamma-Chlordane	0.500 ug/L C U	NA	0.500 ug/L C U
<u>General Chemistry</u>			
Sulfide	NA	12.000 mg/kg C U	NA
pH	NA	7.270 stand C -	NA

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000250

TABLE E-13
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1709	SAMPLE NUMBER	067065 9-10.5	SAMPLING DATE	06/06/91	CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	
<u>Inorganics</u>																			
Arsenic	0.081	mg/L	C	U		0.144	mg/L	C	JB		0.104	mg/L	C	JB		0.104	mg/L	C	JB
Barium	1.609	mg/L	C	U		1.444	mg/L	C	JB		1.658	mg/L	C	JB		1.658	mg/L	C	JB
Cadmium	0.002	mg/L	C	U		0.004	mg/L	C	JB		0.002	mg/L	C	JB		0.002	mg/L	C	JB
Chromium	0.010	mg/L	C	U		0.020	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U
Lead	0.040	mg/L	C	U		0.080	mg/L	C	U		0.040	mg/L	C	U		0.040	mg/L	C	U
Mercury	0.000	mg/L	C	U		0.000	mg/L	C	U		0.000	mg/L	C	U		0.000	mg/L	C	U
Selenium	0.090	mg/L	C	U		0.160	mg/L	C	U		0.132	mg/L	C	JB		0.132	mg/L	C	JB
Silver	0.010	mg/L	C	U		0.038	mg/L	C	JB		0.010	mg/L	C	U		0.010	mg/L	C	U
<u>Volatile Organics</u>																			
1,1-Dichloroethene	5.000	ug/L	C	U		5.000	ug/L	C	U		5.000	ug/L	C	U		5.000	ug/L	C	U
1,2-Dichloroethane	5.000	ug/L	C	U		5.000	ug/L	C	U		5.000	ug/L	C	U		5.000	ug/L	C	U
2-Butanone	10.000	ug/L	C	U		4.000	ug/L	C	U		10.000	ug/L	C	U		10.000	ug/L	C	U
Benzene	5.000	ug/L	C	U		5.000	ug/L	C	U		5.000	ug/L	C	U		5.000	ug/L	C	U
Carbon Tetrachloride	5.000	ug/L	C	U		5.000	ug/L	C	U		5.000	ug/L	C	U		5.000	ug/L	C	U
Chlorobenzene	5.000	ug/L	C	U		5.000	ug/L	C	U		5.000	ug/L	C	U		5.000	ug/L	C	U
Chloroform	5.000	ug/L	C	U		5.000	ug/L	C	U		5.000	ug/L	C	U		5.000	ug/L	C	U
Pyridine	20.000	ug/L	C	U		20.000	ug/L	C	U		20.000	ug/L	C	U		20.000	ug/L	C	U
Tetrachloroethene	5.000	ug/L	C	U		5.000	ug/L	C	U		5.000	ug/L	C	U		5.000	ug/L	C	U
Trichloroethene	5.000	ug/L	C	U		5.000	ug/L	C	U		5.000	ug/L	C	U		5.000	ug/L	C	U
Vinyl chloride	10.000	ug/L	C	U		10.000	ug/L	C	U		10.000	ug/L	C	U		10.000	ug/L	C	U
<u>Semivolatile Organics</u>																			
1,4-Dichlorobenzene	20.000	ug/L	C	U		20.000	ug/L	C	U		20.000	ug/L	C	U		20.000	ug/L	C	U
2,4,5-Trichlorophenol	100.000	ug/L	C	U		100.000	ug/L	C	U		100.000	ug/L	C	U		100.000	ug/L	C	U
2,4,6-Trichlorophenol	20.000	ug/L	C	U		20.000	ug/L	C	U		20.000	ug/L	C	U		20.000	ug/L	C	U
2,4-Dinitrotoluene	20.000	ug/L	C	U		20.000	ug/L	C	U		20.000	ug/L	C	U		20.000	ug/L	C	U
2-Methylphenol	20.000	ug/L	C	U		20.000	ug/L	C	U		20.000	ug/L	C	U		20.000	ug/L	C	U
3-Methylphenol	20.000	ug/L	C	U		20.000	ug/L	C	U		20.000	ug/L	C	U		20.000	ug/L	C	U
4-Methylphenol	20.000	ug/L	C	U		20.000	ug/L	C	U		20.000	ug/L	C	U		20.000	ug/L	C	U
Hexachlorobenzene	20.000	ug/L	C	U		20.000	ug/L	C	U		20.000	ug/L	C	U		20.000	ug/L	C	U
Hexachlorobutadiene	20.000	ug/L	C	U		20.000	ug/L	C	U		20.000	ug/L	C	U		20.000	ug/L	C	U
Hexachloroethane	20.000	ug/L	C	U		20.000	ug/L	C	U		20.000	ug/L	C	U		20.000	ug/L	C	U
Nitrobenzene	20.000	ug/L	C	U		20.000	ug/L	C	U		20.000	ug/L	C	U		20.000	ug/L	C	U
Pentachlorophenol	8.000	ug/L	C	U		100.000	ug/L	C	U		100.000	ug/L	C	U		100.000	ug/L	C	U
<u>Herbicide Organics</u>																			
2,4,5-TP (Silvex)	1.800	ug/L	C	U		1.800	ug/L	C	U		1.800	ug/L	C	U		1.800	ug/L	C	U
2,4-D	12.000	ug/L	C	U		12.000	ug/L	C	U		12.000	ug/L	C	U		12.000	ug/L	C	U

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TABLE E-13
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1709	BORING NUMBER	1710	BORING NUMBER	1710							
SAMPLE NUMBER	067065	SAMPLE NUMBER	067051	SAMPLE NUMBER	067038							
SAMPLING DATE	9-10.5 06/06/91	SAMPLING DATE	06/01/91	SAMPLING DATE	16.5-18 06/01/91							
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Pesticide Organics/PCBs</u>												
Endrin	0.100	ug/L	C	U	0.100	ug/L	C	U	0.100	ug/L	C	U
Heptachlor	0.050	ug/L	C	U	0.050	ug/L	C	U	0.050	ug/L	C	U
Heptachlor epoxide	0.050	ug/L	C	U	0.050	ug/L	C	U	0.050	ug/L	C	U
Methoxychlor	0.500	ug/L	C	U	0.500	ug/L	C	U	0.500	ug/L	C	U
Toxaphene	1.000	ug/L	C	U	1.000	ug/L	C	U	1.000	ug/L	C	U
alpha-Chlordane	0.500	ug/L	C	U	0.500	ug/L	C	U	0.500	ug/L	C	U
gamma-BHC (Lindane)	0.050	ug/L	C	U	0.050	ug/L	C	U	0.050	ug/L	C	U
gamma-Chlordane	0.500	ug/L	C	U	0.500	ug/L	C	U	0.500	ug/L	C	U

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000262

TABLE E-13
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1710	1711	1711	
SAMPLE NUMBER	067039	067021	067016	
SAMPLING DATE	16.5-18 06/01/91	05/29/91	10.5-12 05/29/91	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	
<u>Inorganics</u>				
Arsenic	0.050	mg/L C U	0.448	mg/L C JB
Barium	0.334	mg/L C -	0.286	mg/L C JB
Cadmium	0.002	mg/L C U	0.002	mg/L C U
Chromium	0.010	mg/L C U	0.010	mg/L C U
Lead	0.040	mg/L C U	0.049	mg/L C JB
Mercury	0.000	mg/L C U	0.001	mg/L C -
Selenium	0.080	mg/L C U	0.105	mg/L C JB
Silver	0.010	mg/L C U	0.010	mg/L C U
<u>Volatile Organics</u>				
1,1-Dichloroethene	NA		5.000	ug/L C U
1,2-Dichloroethane	NA		5.000	ug/L C U
2-Butanone	NA		10.000	ug/L C U
Benzene	NA		5.000	ug/L C U
Carbon Tetrachloride	NA		5.000	ug/L C U
Chlorobenzene	NA		5.000	ug/L C U
Chloroform	NA		5.000	ug/L C U
Pyridine	NA		20.000	ug/L C U
Tetrachloroethene	NA		5.000	ug/L C U
Trichloroethene	NA		5.000	ug/L C U
Vinyl chloride	NA		10.000	ug/L C U
<u>Semivolatile Organics</u>				
1,4-Dichlorobenzene	NA		20.000	ug/L C U
2,4,5-Trichlorophenol	NA		100.000	ug/L C U
2,4,6-Trichlorophenol	NA		20.000	ug/L C U
2,4-Dinitrotoluene	NA		20.000	ug/L C U
2-Methylphenol	NA		20.000	ug/L C U
3-Methylphenol	NA		20.000	ug/L C U
4-Methylphenol	NA		20.000	ug/L C U
Hexachlorobenzene	NA		20.000	ug/L C U
Hexachlorobutadiene	NA		20.000	ug/L C U
Hexachloroethane	NA		20.000	ug/L C U
Nitrobenzene	NA		20.000	ug/L C U
Pentachlorophenol	NA		100.000	ug/L C U
<u>Herbicide Organics</u>				
2,4,5-TP (Silvex)	1.800	ug/L C U	1.800	ug/L C U
2,4-D	12.000	ug/L C U	12.000	ug/L C U

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TABLE E-13
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1710	1711	1711			
SAMPLE NUMBER	067039	067021	067016			
SAMPLING DATE	16.5-18 06/01/91	05/29/91	10.5-12 05/29/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Pesticide Organics/PCBs</u>						
Endrin	0.100	ug/L C U	0.100	ug/L C U	0.100	ug/L C U
Heptachlor	0.050	ug/L C U	0.050	ug/L C U	0.050	ug/L C U
Heptachlor epoxide	0.050	ug/L C U	0.050	ug/L C U	0.050	ug/L C U
Methoxychlor	0.500	ug/L C U	0.500	ug/L C U	0.500	ug/L C U
Toxaphene	1.000	ug/L C U	1.000	ug/L C U	1.000	ug/L C U
alpha-Chlordane	0.500	ug/L C U	0.500	ug/L C U	0.500	ug/L C U
gamma-BHC (Lindane)	0.050	ug/L C U	0.050	ug/L C U	0.050	ug/L C U
gamma-Chlordane	0.500	ug/L C U	0.500	ug/L C U	0.500	ug/L C U

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000264

TABLE E-13
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1711	1791	1791
SAMPLE NUMBER	067017	067124	067125
SAMPLING DATE	10.5-12 05/29/91	06/25/91	06/25/91
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Inorganics</u>			
Arsenic	0.050	mg/L C U	0.250 mg/L C U
Barium	0.328	mg/L C -	2.152 mg/L C -
Cadmium	0.002	mg/L C U	0.017 mg/L C J
Chromium	0.010	mg/L C U	0.081 mg/L C -
Cyanide	NA		NA
Lead	0.040	mg/L C U	0.100 mg/L C -
Mercury	0.000	mg/L C U	0.000 mg/L C U
Selenium	0.080	mg/L C U	0.236 mg/L C -
Silver	0.010	mg/L C U	0.073 mg/L C J
			0.395 mg/kg C -
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	NA		5.000 ug/L C U
1,1,2,2-Tetrachloroethane	NA		5.000 ug/L C U
1,1,2-Trichloroethane	NA		5.000 ug/L C U
1,1-Dichloroethane	NA		5.000 ug/L C U
1,1-Dichloroethene	NA		5.000 ug/L C U
1,2-Dichloroethane	NA		5.000 ug/L C U
1,2-Dichloroethene	NA		5.000 ug/L C U
1,2-Dichloropropane	NA		5.000 ug/L C U
2-Butanone	NA		10.000 ug/L C U
2-Hexanone	NA		10.000 ug/L C U
4-Methyl-2-pentanone	NA		10.000 ug/L C U
Acetone	NA		9.000 ug/L C -
Benzene	NA		5.000 ug/L C U
Bromodichloromethane	NA		5.000 ug/L C U
Bromoform	NA		5.000 ug/L C U
Bromomethane	NA		10.000 ug/L C U
Carbon Tetrachloride	NA		5.000 ug/L C U
Carbon disulfide	NA		5.000 ug/L C U
Chlorobenzene	NA		5.000 ug/L C U
Chloroethane	NA		10.000 ug/L C U
Chloroform	NA		5.000 ug/L C U
Chloromethane	NA		10.000 ug/L C U
Dibromochloromethane	NA		5.000 ug/L C U
Ethylbenzene	NA		5.000 ug/L C U
Methylene chloride	NA		5.000 ug/L C U
Pyridine	NA		10.000 ug/L C -
Styrene	NA		5.000 ug/L C U
Tetrachloroethene	NA		5.000 ug/L C U
Toluene	NA		5.000 ug/L C U
Trichloroethene	NA		5.000 ug/L C U

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TABLE E-13
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1711	1791	1791
SAMPLE NUMBER	067017	067124	067125
SAMPLING DATE	10-5-12 05/29/91	06/25/91	06/25/91
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
Volatile Organics			
Vinyl Acetate	NA		10.000 ug/L C U
Vinyl chloride	NA		10.000 ug/L C U
Xylenes, Total	NA		5.000 ug/L C U
cis-1,3-Dichloropropene	NA		5.000 ug/L C U
trans-1,3-Dichloropropene	NA		5.000 ug/L C U
Semivolatile Organics			
1,4-Dichlorobenzene	NA		20.000 ug/L C R
2,4,5-Trichlorophenol	NA		100.000 ug/L C R
2,4,6-Trichlorophenol	NA		20.000 ug/L C R
2,4-Dinitrotoluene	NA		20.000 ug/L C R
2-Methylphenol	NA		20.000 ug/L C R
3-Methylphenol	NA		20.000 ug/L C R
4-Methylphenol	NA		20.000 ug/L C R
Hexachlorobenzene	NA		20.000 ug/L C R
Hexachlorobutadiene	NA		20.000 ug/L C R
Hexachloroethane	NA		20.000 ug/L C R
Nitrobenzene	NA		20.000 ug/L C R
Pentachlorophenol	NA		100.000 ug/L C R
Herbicide Organics			
2,4,5-TP (Silvex)	3.600 ug/L C U		1.800 ug/L C U
2,4-D	24.000 ug/L C U		10.000 ug/L C U
Pesticide Organics/PCBs			
Endrin	0.100 ug/L C U		0.100 ug/L C U
Heptachlor	0.050 ug/L C U		0.050 ug/L C U
Heptachlor epoxide	0.050 ug/L C U		0.050 ug/L C U
Methoxychlor	0.500 ug/L C U		0.500 ug/L C U
Toxaphene	1.000 ug/L C U		1.000 ug/L C U
alpha-Chlordane	0.500 ug/L C U		0.500 ug/L C U
gamma-BHC (Lindane)	0.050 ug/L C U		0.050 ug/L C U
gamma-Chlordane	0.500 ug/L C U		0.500 ug/L C U
General Chemistry			
Sulfide	NA		13.950 mg/kg C U
pH	NA		7.390 stand C -

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TABLE E-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
Inorganics												
Arsenic	0.050	mg/L	C	UJ	0.470	mg/L	C	R	0.452	mg/L	C	R
Barium	0.850	mg/L	C	-	0.913	mg/L	C	UJ	1.480	mg/L	C	-
Cadmium	0.005	mg/L	C	UJ	0.002	mg/L	C	UJ	0.002	mg/L	C	UJ
Chromium	0.010	mg/L	C	UJ	0.003	mg/L	C	UJ	0.003	mg/L	C	UJ
Copper	0.010	mg/L	C	UJ	0.002	mg/L	C	-	0.003	mg/L	C	-
Iron	0.109	mg/L	C	UJ	0.114	mg/L	C	-	0.008	mg/L	C	-
Lead	0.040	mg/L	C	UJ	0.015	mg/L	C	UJ	0.015	mg/L	C	UJ
Manganese	0.102	mg/L	C	-	0.095	mg/L	C	UJ	0.105	mg/L	C	J
Mercury	0.000	mg/L	C	UJ	0.000	mg/L	C	UJ	0.000	mg/L	C	UJ
Selenium	0.080	mg/L	C	UJ	0.110	mg/L	C	R	0.112	mg/L	C	R
Silver	0.010	mg/L	C	R	0.002	mg/L	C	UJ	0.002	mg/L	C	UJ
Zinc	0.076	mg/L	C	U	0.162	mg/L	C	R	0.144	mg/L	C	R
Volatile Organics												
1,1-Dichloroethene	5.000	ug/L	C	U	5.000	ug/L	C	U	5.000	ug/L	C	U
1,2-Dichloroethane	5.000	ug/L	C	U	5.000	ug/L	C	U	5.000	ug/L	C	U
2-Butanone	10.000	ug/L	C	U	10.000	ug/L	C	U	10.000	ug/L	C	U
Benzene	5.000	ug/L	C	U	5.000	ug/L	C	U	5.000	ug/L	C	U
Carbon Tetrachloride	5.000	ug/L	C	U	5.000	ug/L	C	U	5.000	ug/L	C	U
Chlorobenzene	5.000	ug/L	C	U	5.000	ug/L	C	U	5.000	ug/L	C	U
Chloroform	5.000	ug/L	C	U	5.000	ug/L	C	U	5.000	ug/L	C	U
Pyridine	200.000	ug/L	C	U	250.000	ug/L	C	U	250.000	ug/L	C	U
Tetrachloroethene	5.000	ug/L	C	U	5.000	ug/L	C	U	5.000	ug/L	C	U
Trichloroethene	5.000	ug/L	C	U	5.000	ug/L	C	U	5.000	ug/L	C	U
Vinyl chloride	10.000	ug/L	C	U	10.000	ug/L	C	U	10.000	ug/L	C	U
Semivolatile Organics												
1,4-Dichlorobenzene	20.000	ug/L	C	U	50.000	ug/L	C	U	50.000	ug/L	C	U
2,4,5-Trichlorophenol	100.000	ug/L	C	U	50.000	ug/L	C	U	50.000	ug/L	C	U
2,4,6-Trichlorophenol	20.000	ug/L	C	U	50.000	ug/L	C	U	50.000	ug/L	C	U
2,4-Dinitrotoluene	20.000	ug/L	C	U	50.000	ug/L	C	U	50.000	ug/L	C	U
Hexachlorobenzene	20.000	ug/L	C	U	50.000	ug/L	C	U	50.000	ug/L	C	U
Hexachlorobutadiene	20.000	ug/L	C	U	50.000	ug/L	C	U	50.000	ug/L	C	U
Hexachloroethane	20.000	ug/L	C	U	50.000	ug/L	C	U	50.000	ug/L	C	U
Nitrobenzene	20.000	ug/L	C	U	50.000	ug/L	C	U	50.000	ug/L	C	U
Pentachlorophenol	100.000	ug/L	C	U	250.000	ug/L	C	U	250.000	ug/L	C	U
Total Methylphenol	20.000	ug/L	C	U	50.000	ug/L	C	U	50.000	ug/L	C	U
Herbicide Organics												
2,4,5-TP (Silvex)	1.800	ug/L	C	U	17.000	ug/L	C	U	17.000	ug/L	C	U

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TABLE E-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1994				1995				1996			
SAMPLE NUMBER	116295				116114				112081			
SAMPLING DATE	22-23.5 05/13/93				24-25.5 05/01/93				12-13 04/29/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Herbicide Organics</u>												
2,4-D	10.000	ug/L	C	U	120.000	ug/L	C	U	120.000	ug/L	C	U
<u>Pesticide Organics/PCBs</u>												
Chlordane	NA				1.400	ug/L	C	U	1.400	ug/L	C	U
Endrin	0.100	ug/L	C	U	0.600	ug/L	C	U	0.600	ug/L	C	U
Heptachlor	0.050	ug/L	C	U	0.300	ug/L	C	U	0.300	ug/L	C	U
Heptachlor epoxide	0.050	ug/L	C	U	8.300	ug/L	C	U	8.300	ug/L	C	U
Methoxychlor	0.500	ug/L	C	U	18.000	ug/L	C	U	18.000	ug/L	C	U
Toxaphene	1.000	ug/L	C	U	24.000	ug/L	C	U	24.000	ug/L	C	U
alpha-Chlordane	0.500	ug/L	C	U	NA				NA			
gamma-BHC (Lindane)	0.050	ug/L	C	U	0.400	ug/L	C	U	0.400	ug/L	C	U
gamma-Chlordane	0.500	ug/L	C	U	NA				NA			

TABLE E-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1997			1998			1998					
SAMPLE NUMBER	116216			116075			116074					
SAMPLING DATE	26-27.5			0-1.5			2-3.5					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS			
<u>Inorganics</u>												
Arsenic	0.063	mg/L	C	U	NA				0.050	mg/L	C	UJ
Barium	1.580	mg/L	C	-	NA				1.070	mg/L	C	-
Cadmium	0.002	mg/L	C	U	NA				0.005	mg/L	C	U
Chromium	0.003	mg/L	C	U	NA				0.010	mg/L	C	U
Copper	0.002	mg/L	C	U	NA				0.010	mg/L	C	U
Iron	0.016	mg/L	C	U	NA				1.210	mg/L	C	-
Lead	0.015	mg/L	C	U	NA				0.040	mg/L	C	U
Manganese	0.097	mg/L	C	J	NA				0.432	mg/L	C	-
Mercury	0.000	mg/L	C	UJ	NA				0.000	mg/L	C	U
Selenium	0.094	mg/L	C	-	NA				0.080	mg/L	C	U
Silver	0.002	mg/L	C	UJ	NA				0.010	mg/L	C	U
Zinc	0.128	mg/L	C	R	NA				0.207	mg/L	C	U
<u>Volatile Organics</u>												
1,1-Dichloroethane	5.000	ug/L	C	U	5.000	ug/L	C	U	NA			
1,2-Dichloroethane	5.000	ug/L	C	U	5.000	ug/L	C	U	NA			
2-Butanone	10.000	ug/L	C	R	10.000	ug/L	C	U	NA			
Benzene	5.000	ug/L	C	U	5.000	ug/L	C	U	NA			
Carbon Tetrachloride	5.000	ug/L	C	U	5.000	ug/L	C	U	NA			
Chlorobenzene	5.000	ug/L	C	U	5.000	ug/L	C	U	NA			
Chloroform	5.000	ug/L	C	U	5.000	ug/L	C	U	NA			
Pyridine	250.000	ug/L	C	U	NA				200.000	ug/L	C	U
Tetrachloroethene	5.000	ug/L	C	U	5.000	ug/L	C	U	NA			
Trichloroethene	5.000	ug/L	C	U	5.000	ug/L	C	U	NA			
Vinyl chloride	10.000	ug/L	C	U	10.000	ug/L	C	U	NA			
<u>Semivolatile Organics</u>												
1,4-Dichlorobenzene	50.000	ug/L	C	U	NA				20.000	ug/L	C	U
2,4,5-Trichlorophenol	50.000	ug/L	C	U	NA				100.000	ug/L	C	U
2,4,6-Trichlorophenol	50.000	ug/L	C	U	NA				20.000	ug/L	C	U
2,4-Dinitrotoluene	50.000	ug/L	C	U	NA				20.000	ug/L	C	U
Hexachlorobenzene	50.000	ug/L	C	U	NA				20.000	ug/L	C	U
Hexachlorobutadiene	50.000	ug/L	C	U	NA				20.000	ug/L	C	U
Hexachloroethane	50.000	ug/L	C	U	NA				20.000	ug/L	C	U
Nitrobenzene	50.000	ug/L	C	U	NA				20.000	ug/L	C	U
Pentachlorophenol	250.000	ug/L	C	U	NA				100.000	ug/L	C	U
Total Methylphenol	50.000	ug/L	C	U	NA				20.000	ug/L	C	U
<u>Herbicide Organics</u>												
2,4,5-TP (Silvex)	17000.000	ug/L	C	U	NA				1.800	ug/L	C	U

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TABLE E-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1997	1998	1998
SAMPLE NUMBER	116216	116075	116074
SAMPLING DATE	26-27.5 05/05/93	0-1.5 04/28/93	2-3.5 04/28/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Herbicide Organics</u>			
2,4-D	120000.000	ug/L C U	NA
<u>Pesticide Organics/PCBs</u>			
Chlordane	1.400	ug/L C U	NA
Endrin	0.600	ug/L C U	0.100 ug/L C U
Heptachlor	0.300	ug/L C U	0.050 ug/L C U
Heptachlor epoxide	8.300	ug/L C U	0.050 ug/L C U
Methoxychlor	18.000	ug/L C U	0.500 ug/L C U
Toxaphene	24.000	ug/L C U	1.000 ug/L C U
alpha-Chlordane	NA		0.500 ug/L C U
gamma-BHC (Lindane)	0.400	ug/L C U	0.050 ug/L C U
gamma-Chlordane	NA		0.500 ug/L C U

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000220

TABLE E-14

DATA

TABLE E-14
INACTIVE FLYASH PILE
RI/FS QUALITY CONTROL SAMPLES
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - RADIOLOGICAL PARAMETERS

QC TYPE	Rinsate	Rinsate				
SAMPLE NUMBER	007352	007308				
ASSOCIATED SAMPLES	007233	007301				
SAMPLING DATE	10/17/87	10/17/87				
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
RA-226	1.000	pCi/L	U	1.000	pCi/L	U
RA-228	3.000	pCi/L	U	3.000	pCi/L	U
SR-90	5.000	pCi/L	UJ	5.000	pCi/L	UJ
TC-99	30.000	pCi/L	U	30.000	pCi/L	U
U-234	1.000	pCi/L	UJ	1.000	pCi/L	UJ
U-235/236	1.000	pCi/L	UJ	1.000	pCi/L	UJ
U-238	1.000	pCi/L	UJ	1.000	pCi/L	UJ

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TABLE E-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	Rinsate	Rinsate	Field Blank		
SAMPLE NUMBER	007352	007308	067113		
ASSOCIATED SAMPLES	007233	007301	007096, 067102, 067112		
SAMPLING DATE	10/17/87	10/17/87	06/17/91		
CHEMICAL PARAMETERS	RESULTS	RESULTS	RESULTS		
	UNITS	L VQ	UNITS	L VQ	
<u>Inorganics</u>					
Arsenic	0.200	mg/L 3 U	0.200	mg/L 3 U	NA
Barium	0.012	mg/L 3 U	0.016	mg/L 3 U	NA
Cadmium	0.003	mg/L 3 J	0.004	mg/L 3 J	NA
Chromium	0.020	mg/L 3 U	0.020	mg/L 3 U	NA
Copper	0.120	mg/L 3 U	0.190	mg/L 3 U	NA
Iron	0.005	mg/L 3 U	0.050	mg/L 3 U	NA
Lead	0.050	mg/L 3 U	0.060	mg/L 3 -	NA
Manganese	0.035	mg/L 3 U	1.830	mg/L 3 U	NA
Mercury	0.000	mg/L 3 UJ	0.000	mg/L 3 UJ	NA
Molybdenum	0.020	mg/L 3 U	0.020	mg/L 3 U	NA
Nickel	0.020	mg/L 3 U	0.020	mg/L 3 U	NA
Selenium	0.200	mg/L 3 U	0.200	mg/L 3 U	NA
Silver	0.010	mg/L 3 U	0.010	mg/L 3 U	NA
Sodium	2.750	mg/L 3 U	5.080	mg/L 3 U	NA
<u>Volatile Organics</u>					
1,1-Dichloroethene	NA		0.005	mg/L 3 U	
1,2-Dichloroethane	NA		0.005	mg/L 3 U	
2-Butanone	NA		0.010	mg/L 3 U	
Benzene	NA		0.005	mg/L 3 U	
Carbon Tetrachloride	NA		0.005	mg/L 3 U	
Chlorobenzene	NA		0.005	mg/L 3 U	
Chloroform	NA		0.006	mg/L 3 -	
Tetrachloroethene	NA		0.005	mg/L 3 U	
Trichloroethene	NA		0.005	mg/L 3 U	
Vinyl chloride	NA		0.010	mg/L 3 U	
<u>General Chemistry</u>					
Chloride	1.000	mg/L 3 J	0.500	mg/L 3 UJ	NA
Fluoride	0.100	mg/L 3 U	0.100	mg/L 3 U	NA
Hexavalent Chromium	0.010	mg/L 3 UJ	0.010	mg/L 3 UJ	NA
Nitrate	0.100	mg/L 3 U	0.100	mg/L 3 U	NA
Phenols	0.010	mg/L 3 J	0.010	mg/L 3 J	NA
Sulfate	2.100	mg/L 3 -	2.700	mg/L 3 -	NA

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000222

TABLE E-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	Field Blank			Field Blank			Trip Blank							
SAMPLE NUMBER	067068	RESULTS	UNITS	L	VQ	067069	RESULTS	UNITS	L	VQ	067054			
ASSOCIATED SAMPLES	067064, 067065					067064, 067065					067047			
SAMPLING DATE	06/06/91					06/06/91					06/01/91			
CHEMICAL PARAMETERS														
<u>Volatile Organics</u>														
1,1,1-Trichloroethane	0.005	mg/kg	4	U		0.005	mg/kg	4	U		0.005	mg/kg	4	U
1,1,2,2-Tetrachloroethane	0.005	mg/kg	4	U		0.005	mg/kg	4	U		0.005	mg/kg	4	U
1,1,2-Trichloroethane	0.005	mg/kg	4	U		0.005	mg/kg	4	U		0.005	mg/kg	4	U
1,1-Dichloroethane	0.005	mg/kg	4	U		0.005	mg/kg	4	U		0.005	mg/kg	4	U
1,1-Dichloroethene	0.005	mg/kg	4	U		0.005	mg/kg	4	U		0.005	mg/kg	4	U
1,2-Dichloroethane	0.005	mg/kg	4	UJ		0.005	mg/kg	4	UJ		0.005	mg/kg	4	U
1,2-Dichloroethene	0.005	mg/kg	4	U		0.005	mg/kg	4	U		0.005	mg/kg	4	U
1,2-Dichloropropane	0.005	mg/kg	4	U		0.005	mg/kg	4	U		0.005	mg/kg	4	U
2-Butanone	0.010	mg/kg	4	UJ		0.010	mg/kg	4	UJ		0.010	mg/kg	4	U
2-Hexanone	0.010	mg/kg	4	U		0.010	mg/kg	4	U		0.010	mg/kg	4	R
4-Methyl-2-pentanone	0.010	mg/kg	4	U		0.010	mg/kg	4	U		0.010	mg/kg	4	U
Acetone	0.006	mg/kg	4	J		0.005	mg/kg	4	J		0.010	mg/kg	4	R
Benzene	0.005	mg/kg	4	U		0.005	mg/kg	4	U		0.005	mg/kg	4	UJ
Bromodichloromethane	0.002	mg/kg	4	J		0.002	mg/kg	4	J		0.005	mg/kg	4	U
Bromoform	0.005	mg/kg	4	U		0.005	mg/kg	4	U		0.005	mg/kg	4	U
Bromomethane	0.010	mg/kg	4	U		0.010	mg/kg	4	U		0.010	mg/kg	4	UJ
Carbon Tetrachloride	0.005	mg/kg	4	U		0.005	mg/kg	4	U		0.005	mg/kg	4	U
Carbon disulfide	0.005	mg/kg	4	U		0.005	mg/kg	4	U		0.005	mg/kg	4	UJ
Chlorobenzene	0.005	mg/kg	4	U		0.005	mg/kg	4	U		0.005	mg/kg	4	UJ
Chloroethane	0.010	mg/kg	4	U		0.010	mg/kg	4	U		0.010	mg/kg	4	U
Chloroform	0.008	mg/kg	4	-		0.008	mg/kg	4	-		0.010	mg/kg	4	U
Chloromethane	0.010	mg/kg	4	UJ		0.010	mg/kg	4	UJ		0.010	mg/kg	4	-
Dibromochloromethane	0.005	mg/kg	4	U		0.005	mg/kg	4	U		0.005	mg/kg	4	U
Ethylbenzene	0.005	mg/kg	4	U		0.005	mg/kg	4	U		0.005	mg/kg	4	UJ
Methylene chloride	0.001	mg/kg	4	J		0.001	mg/kg	4	J		0.001	mg/kg	4	J
Styrene	0.005	mg/kg	4	U		0.005	mg/kg	4	U		0.005	mg/kg	4	UJ
Tetrachloroethene	0.005	mg/kg	4	U		0.005	mg/kg	4	U		0.005	mg/kg	4	U
Toluene	0.005	mg/kg	4	U		0.005	mg/kg	4	U		0.005	mg/kg	4	UJ
Trichloroethene	0.005	mg/kg	4	U		0.005	mg/kg	4	U		0.002	mg/kg	4	J
Vinyl Acetate	0.010	mg/kg	4	U		0.010	mg/kg	4	U		0.010	mg/kg	4	U
Vinyl chloride	0.010	mg/kg	4	U		0.010	mg/kg	4	U		0.010	mg/kg	4	U
Xylenes, Total	0.005	mg/kg	4	U		0.005	mg/kg	4	U		0.005	mg/kg	4	UJ
cis-1,3-Dichloropropene	0.005	mg/kg	4	U		0.005	mg/kg	4	U		0.005	mg/kg	4	U
trans-1,3-Dichloropropene	0.005	mg/kg	4	U		0.005	mg/kg	4	U		0.005	mg/kg	4	U

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TABLE E-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	Field Blank			Field Blank			Field Blank					
SAMPLE NUMBER	067055			067023			067024					
ASSOCIATED SAMPLES	067055			067020			067020					
SAMPLING DATE	06/01/91			05/29/91			05/29/91					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS			
Volatile Organics												
1,1,1-Trichloroethane	0.005	mg/kg	4	U	NA				NA			
1,1,2,2-Tetrachloroethane	0.005	mg/kg	4	U	NA				NA			
1,1,2-Trichloroethane	0.005	mg/kg	4	U	NA				NA			
1,1-Dichloroethane	0.005	mg/kg	4	U	NA				NA			
1,1-Dichloroethene	0.005	mg/kg	4	U	0.005	mg/L	3	U	0.005	mg/L	3	U
1,2-Dichloroethane	0.005	mg/kg	4	U	0.005	mg/L	3	U	0.005	mg/L	3	U
1,2-Dichloroethene	0.005	mg/kg	4	U	NA				NA			
1,2-Dichloropropane	0.005	mg/kg	4	U	NA				NA			
2-Butanone	0.010	mg/kg	4	R	0.010	mg/L	3	U	0.010	mg/L	3	U
2-Hexanone	0.010	mg/kg	4	U	NA				NA			
4-Methyl-2-pentanone	0.010	mg/kg	4	U	NA				NA			
Acetone	0.010	mg/kg	4	R	NA				NA			
Benzene	0.005	mg/kg	4	UJ	0.005	mg/L	3	U	0.005	mg/L	3	U
Bromodichloromethane	0.005	mg/kg	4	U	NA				NA			
Bromoform	0.005	mg/kg	4	U	NA				NA			
Bromomethane	0.010	mg/kg	4	UJ	NA				NA			
Carbon Tetrachloride	0.005	mg/kg	4	U	0.005	mg/L	3	U	0.005	mg/L	3	U
Carbon disulfide	0.005	mg/kg	4	UJ	NA				NA			
Chlorobenzene	0.005	mg/kg	4	UJ	0.005	mg/L	3	U	0.005	mg/L	3	U
Chloroethane	0.010	mg/kg	4	U	NA				NA			
Chloroform	0.005	mg/kg	4	-	0.020	mg/L	3	-	0.019	mg/L	3	-
Chloromethane	0.010	mg/kg	4	UJ	NA				NA			
Dibromochloromethane	0.005	mg/kg	4	U	NA				NA			
Ethylbenzene	0.005	mg/kg	4	UJ	NA				NA			
Methylene chloride	0.003	mg/kg	4	J	NA				NA			
Styrene	0.005	mg/kg	4	UJ	NA				NA			
Tetrachloroethene	0.005	mg/kg	4	U	0.005	mg/L	3	U	0.005	mg/L	3	U
Toluene	0.005	mg/kg	4	UJ	NA				NA			
Trichloroethene	0.005	mg/kg	4	U	0.005	mg/L	3	U	0.005	mg/L	3	U
Vinyl Acetate	0.010	mg/kg	4	U	NA				NA			
Vinyl chloride	0.010	mg/kg	4	U	0.010	mg/L	3	U	0.010	mg/L	3	U
Xylenes, Total	0.005	mg/kg	4	UJ	NA				NA			
cis-1,3-Dichloropropene	0.005	mg/kg	4	U	NA				NA			
trans-1,3-Dichloropropene	0.005	mg/kg	4	U	NA				NA			

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TABLE E-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	Field Blank			Trip/Field Blank			Rinsate					
SAMPLE NUMBER	067127			067621			067622					
ASSOCIATED SAMPLES	067122			067604, 067609			007604, 067609					
SAMPLING DATE	06/25/91			02/22/92			02/22/92					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.005	mg/L	3	U	0.005	mg/L	4	UJ	0.005	mg/L	4	UJ
1,1,2,2-Tetrachloroethane	0.005	mg/L	3	U	0.005	mg/L	4	U	0.005	mg/L	4	U
1,1,2-Trichloroethane	0.005	mg/L	3	U	0.005	mg/L	4	U	0.005	mg/L	4	U
1,1-Dichloroethane	0.005	mg/L	3	U	0.005	mg/L	4	U	0.005	mg/L	4	U
1,1-Dichloroethene	0.005	mg/L	3	U	0.005	mg/L	4	U	0.005	mg/L	4	U
1,2-Dichloroethane	0.005	mg/L	3	U	0.005	mg/L	4	U	0.005	mg/L	4	U
1,2-Dichloroethene	0.005	mg/L	3	U	0.005	mg/L	4	U	0.005	mg/L	4	U
1,2-Dichloropropane	0.005	mg/L	3	U	0.005	mg/L	4	U	0.005	mg/L	4	U
2-Butanone	0.010	mg/L	3	U	0.010	mg/L	4	UJ	0.010	mg/L	4	UJ
2-Hexanone	0.010	mg/L	3	U	0.010	mg/L	4	UJ	0.010	mg/L	4	UJ
4-Methyl-2-pentanone	0.010	mg/L	3	U	0.010	mg/L	4	U	0.010	mg/L	4	U
Acetone	0.009	mg/L	3	-	0.004	mg/L	4	J	0.003	mg/L	4	J
Benzene	0.005	mg/L	3	U	0.005	mg/L	4	U	0.005	mg/L	4	U
Bromodichloromethane	0.005	mg/L	3	U	0.001	mg/L	4	J	0.005	mg/L	4	U
Bromoform	0.005	mg/L	3	U	0.005	mg/L	4	UJ	0.005	mg/L	4	UJ
Bromomethane	0.010	mg/L	3	U	0.010	mg/L	4	UJ	0.010	mg/L	4	UJ
Carbon Tetrachloride	0.005	mg/L	3	U	0.005	mg/L	4	U	0.005	mg/L	4	U
Carbon disulfide	0.005	mg/L	3	U	0.005	mg/L	4	U	0.005	mg/L	4	U
Chlorobenzene	0.005	mg/L	3	U	0.005	mg/L	4	U	0.005	mg/L	4	U
Chloroethane	0.010	mg/L	3	U	0.010	mg/L	4	U	0.010	mg/L	4	U
Chloroform	0.005	mg/L	3	U	0.004	mg/L	4	-	0.002	mg/L	4	J
Chloromethane	0.010	mg/L	3	U	0.010	mg/L	4	U	0.010	mg/L	4	U
Dibromochloromethane	0.005	mg/L	3	U	0.005	mg/L	4	U	0.005	mg/L	4	U
Ethylbenzene	0.005	mg/L	3	U	0.005	mg/L	4	U	0.005	mg/L	4	U
Methylene chloride	0.010	mg/L	3	-	0.002	mg/L	4	J	0.002	mg/L	4	J
Styrene	0.005	mg/L	3	U	0.005	mg/L	4	U	0.005	mg/L	4	U
Tetrachloroethene	0.005	mg/L	3	U	0.005	mg/L	4	U	0.005	mg/L	4	U
Toluene	0.005	mg/L	3	U	0.005	mg/L	4	U	0.002	mg/L	4	J
Trichloroethene	0.005	mg/L	3	U	0.005	mg/L	4	U	0.005	mg/L	4	U
Vinyl Acetate	0.005	mg/L	3	U	0.005	mg/L	4	U	0.005	mg/L	4	U
Vinyl chloride	0.010	mg/L	3	U	0.010	mg/L	4	U	0.010	mg/L	4	U
Xylenes, Total	0.005	mg/L	3	U	0.005	mg/L	4	U	0.005	mg/L	4	U
cis-1,3-Dichloropropene	0.005	mg/L	3	U	0.005	mg/L	4	UJ	0.005	mg/L	4	UJ
trans-1,3-Dichloropropene	0.005	mg/L	3	U	0.005	mg/L	4	UJ	0.005	mg/L	4	UJ
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	NA				NA				0.010	mg/L	4	U
1,2-Dichlorobenzene	NA				NA				0.010	mg/L	4	U
1,3-Dichlorobenzene	NA				NA				0.010	mg/L	4	U
1,4-Dichlorobenzene	NA				NA				0.010	mg/L	4	U
2,4,5-Trichlorophenol	NA				NA				0.050	mg/L	4	U

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TABLE E-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	Field Blank	Trip/Field Blank	Rinsate
SAMPLE NUMBER	067127	067621	067622
ASSOCIATED SAMPLES	067122	067604, 067609	067604, 067609
SAMPLING DATE	06/25/91	02/22/92	02/22/92
CHEMICAL PARAMETERS	RESULTS	RESULTS	RESULTS
	UNITS L VQ	UNITS L VQ	UNITS L VQ
<u>Semivolatile Organics</u>			
2,4,6-Trichlorophenol	NA	NA	0.010 mg/L 4 U
2,4-Dichlorophenol	NA	NA	0.010 mg/L 4 U
2,4-Dimethylphenol	NA	NA	0.010 mg/L 4 U
2,4-Dinitrophenol	NA	NA	0.050 mg/L 4 U
2,4-Dinitrotoluene	NA	NA	0.010 mg/L 4 U
2,6-Dinitrotoluene	NA	NA	0.010 mg/L 4 U
2-Chloronaphthalene	NA	NA	0.010 mg/L 4 U
2-Chlorophenol	NA	NA	0.010 mg/L 4 U
2-Methylnaphthalene	NA	NA	0.010 mg/L 4 U
2-Methylphenol	NA	NA	0.010 mg/L 4 U
2-Nitroaniline	NA	NA	0.050 mg/L 4 U
2-Nitrophenol	NA	NA	0.010 mg/L 4 U
3,3'-Dichlorobenzidine	NA	NA	0.020 mg/L 4 U
3-Nitroaniline	NA	NA	0.050 mg/L 4 U
4,6-Dinitro-2-methylphenol	NA	NA	0.050 mg/L 4 U
4-Bromophenyl phenyl ether	NA	NA	0.010 mg/L 4 U
4-Chloro-3-methylphenol	NA	NA	0.010 mg/L 4 U
4-Chlorophenylphenyl ether	NA	NA	0.010 mg/L 4 U
4-Methylphenol	NA	NA	0.010 mg/L 4 U
4-Nitroaniline	NA	NA	0.050 mg/L 4 U
4-Nitrophenol	NA	NA	0.050 mg/L 4 U
Acenaphthene	NA	NA	0.010 mg/L 4 U
Acenaphthylene	NA	NA	0.010 mg/L 4 U
Anthracene	NA	NA	0.010 mg/L 4 U
Benzo(a)anthracene	NA	NA	0.010 mg/L 4 U
Benzo(a)pyrene	NA	NA	0.010 mg/L 4 U
Benzo(b)fluoranthene	NA	NA	0.010 mg/L 4 U
Benzo(g,h,i)perylene	NA	NA	0.010 mg/L 4 U
Benzo(k)fluoranthene	NA	NA	0.010 mg/L 4 U
Benzolic acid	NA	NA	0.050 mg/L 4 U
Benzyl alcohol	NA	NA	0.010 mg/L 4 U
Butyl benzyl phthalate	NA	NA	0.010 mg/L 4 U
Chrysene	NA	NA	0.010 mg/L 4 U
Di-n-butyl phthalate	NA	NA	0.010 mg/L 4 U
Di-n-octyl phthalate	NA	NA	0.010 mg/L 4 U
Dibenzo(a,h)anthracene	NA	NA	0.010 mg/L 4 U
Dibenzofuran	NA	NA	0.010 mg/L 4 U
Diethyl phthalate	NA	NA	0.010 mg/L 4 U
Dimethyl phthalate	NA	NA	0.010 mg/L 4 U
Fluoranthene	NA	NA	0.010 mg/L 4 U
Fluorene	NA	NA	0.010 mg/L 4 U
Hexachlorobenzene	NA	NA	0.010 mg/L 4 U

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TABLE E-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	Field Blank	Trip/Field Blank	Rinsate
SAMPLE NUMBER	067127	067621	067622
ASSOCIATED SAMPLES	067122	067604, 007609	067604, 067609
SAMPLING DATE	06/25/91	02/22/92	02/22/92
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
Hexachlorobutadiene	NA		0.010 mg/L 4 U
Hexachlorocyclopentadiene	NA		0.010 mg/L 4 U
Hexachloroethane	NA		0.010 mg/L 4 U
Indeno(1,2,3-cd)pyrene	NA		0.010 mg/L 4 U
Isophorone	NA		0.010 mg/L 4 U
N-Nitroso-di-n-propylamine	NA		0.010 mg/L 4 U
N-Nitrosodiphenylamine	NA		0.010 mg/L 4 U
Naphthalene	NA		0.010 mg/L 4 U
Nitrobenzene	NA		0.010 mg/L 4 U
Pentachlorophenol	NA		0.050 mg/L 4 U
Phenanthrene	NA		0.010 mg/L 4 U
Phenol	NA		0.010 mg/L 4 U
Pyrene	NA		0.010 mg/L 4 U
bis(2-Chloroethoxy)methane	NA		0.010 mg/L 4 U
bis(2-Chloroethyl)ether	NA		0.010 mg/L 4 U
bis(2-Chloroisopropyl) ether	NA		0.010 mg/L 4 U
bis(2-Ethylhexyl) phthalate	NA		0.010 mg/L 4 U
p-Chloroaniline	NA		0.010 mg/L 4 U
<u>General Chemistry</u>			
Total Organic Carbon	NA	NA	1.000 mg/L 3 U

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TABLE E-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	Trip/Field Blank		
SAMPLE NUMBER	067637		
ASSOCIATED SAMPLES	067627, 067632		
SAMPLING DATE	02/23/92		
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	0.005	mg/L	4 UJ
1,1,2,2-Tetrachloroethane	0.005	mg/L	4 U
1,1,2-Trichloroethane	0.005	mg/L	4 U
1,1-Dichloroethane	0.005	mg/L	4 U
1,1-Dichloroethene	0.005	mg/L	4 U
1,2-Dichloroethane	0.005	mg/L	4 U
1,2-Dichloroethene	0.005	mg/L	4 U
1,2-Dichloropropane	0.005	mg/L	4 U
2-Butanone	0.010	mg/L	4 UJ
2-Hexanone	0.010	mg/L	4 UJ
4-Methyl-2-pentanone	0.010	mg/L	4 U
Acetone	0.002	mg/L	4 J
Benzene	0.005	mg/L	4 U
Bromodichloromethane	0.001	mg/L	4 J
Bromoform	0.005	mg/L	4 UJ
Bromomethane	0.010	mg/L	4 UJ
Carbon Tetrachloride	0.005	mg/L	4 U
Carbon disulfide	0.005	mg/L	4 U
Chlorobenzene	0.005	mg/L	4 U
Chloroethane	0.010	mg/L	4 U
Chloroform	0.005	mg/L	4 -
Chloromethane	0.010	mg/L	4 U
Dibromochloromethane	0.005	mg/L	4 U
Ethylbenzene	0.005	mg/L	4 U
Methylene chloride	0.005	mg/L	4 UJ
Styrene	0.005	mg/L	4 U
Tetrachloroethene	0.005	mg/L	4 U
Toluene	0.005	mg/L	4 U
Trichloroethene	0.005	mg/L	4 U
Vinyl Acetate	0.010	mg/L	4 U
Vinyl chloride	0.010	mg/L	4 U
Xylenes, Total	0.005	mg/L	4 U
cis-1,3-Dichloropropene	0.005	mg/L	4 UJ
trans-1,3-Dichloropropene	0.005	mg/L	4 UJ

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TABLE E-14
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

QC TYPE	FIELD BLANK			RINSATE		
SAMPLE NUMBER	111809			111808		
ASSOCIATED SAMPLES	111813, 111815, 111812			111812, 111813, 111815		
SAMPLING DATE	04/17/93			04/17/93		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	19.000	pCi/L	UJ	13.000	pCi/L	UJ
GROSS ALPHA	0.563	pCi/L	UJ	0.747	pCi/L	UJ
GROSS BETA	0.952	pCi/L	UJ	0.974	pCi/L	UJ
NP-237	NA			0.132	pCi/L	U
PU-238	0.127	pCi/L	UJ	0.178	pCi/L	J
PU-239/240	0.127	pCi/L	UJ	0.037	pCi/L	UJ
RA-226	0.072	pCi/L	UJ	0.115	pCi/L	UJ
RA-228	1.440	pCi/L	UJ	1.050	pCi/L	UJ
RU-106	116.000	pCi/L	UJ	112.000	pCi/L	UJ
SR-90	0.740	pCi/L	UJ	0.706	pCi/L	UJ
TC-99	11.170	pCi/L	UJ	10.800	pCi/L	UJ
TH-228	0.180	pCi/L	UJ	0.866	pCi/g	R
TH-230	0.165	pCi/L	UJ	0.698	pCi/g	R
TH-232	0.046	pCi/L	UJ	0.614	pCi/g	R
TH-TOTAL	0.428	ug/L	UJ	5.650	ug/g	R
U-234	0.066	pCi/L	UJ	0.054	pCi/L	UJ
U-235/236	0.082	pCi/L	UJ	0.082	pCi/L	UJ
U-238	0.075	pCi/L	UJ	0.055	pCi/L	UJ
U-TOTAL	5.000	ug/L	UJ	5.000	ug/L	U

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TABLE E-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	FIELD BLANK				FIELD BLANK				RINSATE			
SAMPLE NUMBER	111807				111809				111808			
ASSOCIATED SAMPLES	111794, 111795, 111806, 111796				111812, 111813, 111815				111812, 111813, 111815			
SAMPLING DATE	04/16/93				04/17/93				04/17/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Inorganics</u>												
Aluminum	NA				0.058	mg/L	C	U	0.058	mg/L	C	U
Antimony	NA				0.001	mg/L	C	U	0.001	mg/L	C	U
Arsenic	NA				0.002	mg/L	C	U	0.002	mg/L	C	U
Barium	NA				0.002	mg/L	C	U	0.002	mg/L	C	U
Beryllium	NA				0.002	mg/L	C	U	0.002	mg/L	C	U
Cadmium	NA				0.005	mg/L	C	U	0.005	mg/L	C	U
Calcium	NA				0.020	mg/L	C	U	0.037	mg/L	C	-
Chromium	NA				0.010	mg/L	C	U	0.010	mg/L	C	U
Cobalt	NA				0.010	mg/L	C	U	0.010	mg/L	C	U
Copper	NA				0.010	mg/L	C	U	0.010	mg/L	C	U
Cyanide	NA				0.002	mg/L	C	U	0.002	mg/L	C	U
Iron	NA				0.020	mg/L	C	U	0.020	mg/L	C	U
Lead	NA				0.002	mg/L	C	U	0.002	mg/L	C	U
Magnesium	NA				0.050	mg/L	C	U	0.050	mg/L	C	U
Manganese	NA				0.010	mg/L	C	U	0.010	mg/L	C	U
Mercury	NA				0.000	mg/L	C	U	0.000	mg/L	C	U
Molybdenum	NA				0.020	mg/L	C	U	0.020	mg/L	C	U
Nickel	NA				0.020	mg/L	C	U	0.020	mg/L	C	U
Potassium	NA				0.100	mg/L	C	U	0.100	mg/L	C	U
Selenium	NA				0.010	mg/L	C	U	0.002	mg/L	C	U
Silicon	NA				0.100	mg/L	C	U	0.100	mg/L	C	U
Silver	NA				0.010	mg/L	C	U	0.010	mg/L	C	U
Sodium	NA				0.100	mg/L	C	U	0.100	mg/L	C	U
Thallium	NA				0.002	mg/L	C	U	0.002	mg/L	C	U
Vanadium	NA				0.010	mg/L	C	U	0.010	mg/L	C	U
Zinc	NA				0.005	mg/L	C	U	0.006	mg/L	C	-
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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TABLE E-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	FIELD BLANK					FIELD BLANK					RINSATE				
SAMPLE NUMBER	111807					111809					111808				
ASSOCIATED SAMPLES	111794, 111795, 111796, 111806					111812, 111813, 111815					111812, 111813, 111815				
SAMPLING DATE	04/16/93					04/17/93					04/17/93				
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ		RESULTS	UNITS	L	VQ		RESULTS	UNITS	L	VQ	
<u>Volatile Organics</u>															
Bromodichloromethane	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Bromoform	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Bromomethane	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Carbon Tetrachloride	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Carbon disulfide	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Chlorobenzene	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Chloroethane	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Chloroform	0.002	mg/L	C	U		0.003	mg/L	C	U		0.003	mg/L	C	U	
Chloromethane	0.010	mg/L	C	U		0.010	mg/L	C	U		0.002	mg/L	C	U	
Dibromochloromethane	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Ethylbenzene	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Methylene chloride	0.010	mg/L	C	U	3	0.034	mg/L	C	U		0.035	mg/L	C	U	
Styrene	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Tetrachloroethene	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Toluene	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Trichloroethene	0.010	mg/L	C	U		0.010	mg/L	C	U		0.001	mg/L	C	U	
Vinyl Acetate	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Vinyl chloride	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Xylenes, Total	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
cis-1,3-Dichloropropene	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
trans-1,3-Dichloropropene	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
<u>Semivolatile Organics</u>															
1,2,4-Trichlorobenzene	NA					0.010	mg/L	C	UJ		0.010	mg/L	C	U	
1,2-Dichlorobenzene	NA					0.010	mg/L	C	U		0.010	mg/L	C	U	
1,3-Dichlorobenzene	NA					0.010	mg/L	C	U		0.010	mg/L	C	U	
1,4-Dichlorobenzene	NA					0.010	mg/L	C	U		0.010	mg/L	C	U	
2,4,5-Trichlorophenol	NA					0.025	mg/L	C	U		0.025	mg/L	C	U	
2,4,6-Trichlorophenol	NA					0.010	mg/L	C	U		0.010	mg/L	C	U	
2,4-Dichlorophenol	NA					0.010	mg/L	C	U		0.010	mg/L	C	U	
2,4-Dimethylphenol	NA					0.010	mg/L	C	U		0.010	mg/L	C	U	
2,4-Dinitrophenol	NA					0.025	mg/L	C	U		0.025	mg/L	C	U	
2,4-Dinitrotoluene	NA					0.010	mg/L	C	U		0.010	mg/L	C	U	
2,6-Dinitrotoluene	NA					0.010	mg/L	C	U		0.010	mg/L	C	U	
2-Chloronaphthalene	NA					0.010	mg/L	C	U		0.010	mg/L	C	U	
2-Chlorophenol	NA					0.010	mg/L	C	U		0.010	mg/L	C	U	
2-Methylnaphthalene	NA					0.010	mg/L	C	U		0.010	mg/L	C	U	
2-Methylphenol	NA					0.010	mg/L	C	U		0.010	mg/L	C	U	
2-Nitroaniline	NA					0.025	mg/L	C	UJ		0.025	mg/L	C	U	
2-Nitrophenol	NA					0.010	mg/L	C	U		0.010	mg/L	C	U	
3,3'-Dichlorobenzidine	NA					0.010	mg/L	C	UJ		0.010	mg/L	C	U	

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TABLE E-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	FIELD BLANK	FIELD BLANK	RINSATE
SAMPLE NUMBER	111807	111809	111808
ASSOCIATED SAMPLES	111794, 111795, 111796, 111806	111812, 111813, 111815	111812, 111813, 111815
SAMPLING DATE	04/16/93	04/17/93	04/17/93
CHEMICAL PARAMETERS	RESULTS	RESULTS	RESULTS
	UNITS	L	VQ
<u>Semivolatile Organics</u>			
3-Nitroaniline	NA	0.025	0.025
4,6-Dinitro-2-methylphenol	NA	0.025	0.025
4-Bromophenyl phenyl ether	NA	0.010	0.010
4-Chloro-3-methylphenol	NA	0.010	0.010
4-Chlorophenylphenyl ether	NA	0.010	0.010
4-Methylphenol	NA	0.010	0.010
4-Nitroaniline	NA	0.025	0.025
4-Nitrophenol	NA	0.025	0.025
Acenaphthene	NA	0.010	0.010
Acenaphthylene	NA	0.010	0.010
Anthracene	NA	0.010	0.010
Benzo(a)anthracene	NA	0.010	0.010
Benzo(a)pyrene	NA	0.010	0.010
Benzo(b)fluoranthene	NA	0.010	0.010
Benzo(g,h,i)perylene	NA	0.010	0.010
Benzo(k)fluoranthene	NA	0.010	0.010
Benzoic acid	NA	0.050	0.050
Benzyl alcohol	NA	0.010	0.010
Butyl benzyl phthalate	NA	0.010	0.010
Carbazole	NA	0.010	0.010
Chrysene	NA	0.010	0.010
Di-n-butyl phthalate	NA	0.010	0.010
Di-n-octyl phthalate	NA	0.010	0.010
Dibenzo(a,h)anthracene	NA	0.010	0.010
Dibenzofuran	NA	0.010	0.010
Diethyl phthalate	NA	0.010	0.010
Dimethyl phthalate	NA	0.010	0.010
Fluoranthene	NA	0.010	0.010
Fluorene	NA	0.010	0.010
Hexachlorobenzene	NA	0.010	0.010
Hexachlorobutadiene	NA	0.010	0.010
Hexachlorocyclopentadiene	NA	0.010	0.010
Hexachloroethane	NA	0.010	0.010
Indeno(1,2,3-cd)pyrene	NA	0.010	0.010
Isophorone	NA	0.010	0.010
N-Nitroso-di-n-propylamine	NA	0.010	0.010
N-Nitrosodiphenylamine	NA	0.010	0.010
Naphthalene	NA	0.010	0.010
Nitrobenzene	NA	0.010	0.010
Pentachlorophenol	NA	0.025	0.025
Phenanthrene	NA	0.010	0.010
Phenol	NA	0.010	0.010

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TABLE E-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	FIELD BLANK	FIELD BLANK	RINSATE
SAMPLE NUMBER	111807	111809	111808
ASSOCIATED SAMPLES	111794, 111795, 111796, 111806	111812, 111813, 111815	111812, 111813, 111815
SAMPLING DATE	04/16/93	04/17/93	04/17/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
Pyrene	NA		0.010 mg/L C U
bis(2-Chloroethoxy)methane	NA		0.010 mg/L C U
bis(2-Chloroethyl)ether	NA		0.010 mg/L C U
bis(2-Chloroisopropyl) ether	NA		0.010 mg/L C UJ
bis(2-Ethylhexyl) phthalate	NA		0.010 mg/L C U
p-Chloroaniline	NA		0.010 mg/L C UJ
<u>Pesticide Organics/PCBs</u>			
4,4'-DDD	NA		0.000 mg/L C UJ
4,4'-DDE	NA		0.000 mg/L C U
4,4'-DDT	NA		0.000 mg/L C U
Aldrin	NA		0.000 mg/L C U
Aroclor-1016	NA		0.001 mg/L C U
Aroclor-1221	NA		0.002 mg/L C U
Aroclor-1232	NA		0.001 mg/L C UU
Aroclor-1242	NA		0.001 mg/L C U
Aroclor-1248	NA		0.001 mg/L C U
Aroclor-1254	NA		0.001 mg/L C U
Aroclor-1260	NA		0.001 mg/L C U
Dieldrin	NA		0.000 mg/L C U
Endosulfan II	NA		0.000 mg/L C U
Endosulfan sulfate	NA		0.000 mg/L C U
Endosulfan-I	NA		0.000 mg/L C U
Endrin	NA		0.000 mg/L C U
Endrin aldehyde	NA		0.000 mg/L C U
Endrin ketone	NA		0.000 mg/L C U
Heptachlor	NA		0.000 mg/L C U
Heptachlor epoxide	NA		0.000 mg/L C U
Methoxychlor	NA		0.001 mg/L C U
Toxaphene	NA		0.005 mg/L C U
alpha-BHC	NA		0.000 mg/L C U
alpha-Chlordane	NA		0.000 mg/L C U
beta-BHC	NA		0.000 mg/L C U
delta-BHC	NA		0.000 mg/L C U
gamma-BHC (Lindane)	NA		0.000 mg/L C U
gamma-Chlordane	NA		0.000 mg/L C U
<u>General Chemistry</u>			
Alkalinity	NA		1.000 mg/L B U
Ammonia	NA		0.100 mg/L B U
			NA
			NA

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TABLE E-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	FIELD BLANK	FIELD BLANK	RINSATE
SAMPLE NUMBER	111807	111809	111808
ASSOCIATED SAMPLES	111794, 111795, 111796, 111806	111812, 111813, 111815	111812, 111813, 111815
SAMPLING DATE	04/16/93	04/17/93	04/17/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
General Chemistry			
Chloride	NA	0.500	mg/L B U
Fluoride	NA	0.050	mg/L B U
Nitrate	NA	0.100	mg/L B R
Phenols	NA	0.010	mg/L B U
Phosphorus	NA	0.020	mg/L B U
Sulfate	NA	2.000	mg/L B U
Sulfide	NA	0.500	mg/L B U
Total Kjeldahl Nitrogen	NA	0.100	mg/L B U
Total Organic Carbon	NA	1.000	mg/L B U
Total Organic Halides	NA	0.010	mg/L B U
Total Organic Nitrogen	NA	0.100	mg/L B U

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TABLE E-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK			TRIP BLANK			TRIP BLANK					
SAMPLE NUMBER	110891	C	U	111491	C	U	111797	C	U			
ASSOCIATED SAMPLES	110892	C	U	111489	C	U	111790, 111791	C	U			
SAMPLING DATE	04/27/93			04/17/93			04/16/93					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.004	mg/L	C	J
2-Hexanone	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.003	mg/L	C	J
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.002	mg/L	C	J
Acetone	0.005	mg/L	C	U	0.034	mg/L	C	U	0.018	mg/L	C	J
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.005	mg/L	C	J
Chloroform	0.010	mg/L	C	U	0.005	mg/L	C	J	0.010	mg/L	C	J
Chloromethane	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	UJ	0.036	mg/L	C	UJ	0.010	mg/L	C	J
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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TABLE E-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK				TRIP BLANK				TRIP BLANK			
SAMPLE NUMBER	111798				111814				111821			
ASSOCIATED SAMPLES	111792, 111793				111812, 111813, 111815, 111809				111820			
SAMPLING DATE	04/16/93				04/17/93				04/21/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.010	mg/L	C	U	0.036	mg/L	C	U	0.010	mg/L	C	U
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.002	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.002	mg/L	C	U	0.004	mg/L	C	U	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U	0.030	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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TABLE E-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK				TRIP BLANK				TRIP BLANK			
SAMPLE NUMBER	111825				111827				112010			
ASSOCIATED SAMPLES	111819				111828				111996			
SAMPLING DATE	04/21/93				04/26/93				04/29/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.042	mg/L	C	-	0.010	mg/L	C	U	0.010	mg/L	C	U
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	UJ
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.003	mg/L	C	J	0.010	mg/L	C	U	0.010	mg/L	C	UJ
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.011	mg/L	C	UJ
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

00028?

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TABLE E-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK			TRIP BLANK			TRIP BLANK					
SAMPLE NUMBER	112016			112018			112020					
ASSOCIATED SAMPLES	112017			112015			112021					
SAMPLING DATE	04/29/93			04/29/93			04/30/93					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS			
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlormethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.005	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	NA				0.010	mg/L	C	U	NA			
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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000288

TABLE E-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK				TRIP BLANK				TRIP BLANK			
SAMPLE NUMBER	112023				112025				112028			
ASSOCIATED SAMPLES	112022				116219				112027			
SAMPLING DATE	04/30/93				05/01/93				05/01/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.010	mg/L	C	U	0.006	mg/L	C	U	0.010	mg/L	C	U
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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TABLE E-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK				TRIP BLANK				TRIP BLANK			
SAMPLE NUMBER	112068				112069				113303			
ASSOCIATED SAMPLES	112045, 112054, 112057 112065, 116074, 116075				112073, 112077, 112082 112084, 112081, 112087				116225, 116226			
SAMPLING DATE	04/28/93				04/29/93				05/05/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Acetone	0.014	mg/L	C	J	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Benzene	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Vinyl Acetate	NA				NA				0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U

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000290

TABLE E-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK			TRIP BLANK			TRIP BLANK								
SAMPLE NUMBER	113802	RESULTS	UNITS	L	VQ	116076	RESULTS	UNITS	L	VQ	116176	RESULTS	UNITS	L	VQ
ASSOCIATED SAMPLES	113801, 113798					116080, 116090, 116172, 116114					116177, 116192				
SAMPLING DATE	06/22/93					05/01/93					05/05/93				
CHEMICAL PARAMETERS															
<u>Volatile Organics</u>															
1,1,1-Trichloroethane	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
1,1,2-Trichloroethane	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
1,1-Dichloroethane	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
1,1-Dichloroethene	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
1,2-Dichloroethane	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
1,2-Dichloroethene	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
1,2-Dichloropropane	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
2-Butanone	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
2-Hexanone	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
4-Methyl-2-pentanone	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Acetone	0.010	mg/L	C	U		0.004	mg/L	C	J		0.010	mg/L	C	U	
Benzene	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Bromodichloromethane	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Bromoform	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Bromomethane	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Carbon Tetrachloride	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Carbon disulfide	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	UJ	
Chlorobenzene	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Chloroethane	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	UJ	
Chloroform	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Chloromethane	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	UJ	
Dibromochloromethane	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Ethylbenzene	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Methylene chloride	0.019	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	UJ	
Styrene	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	UJ	
Tetrachloroethene	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Toluene	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Trichloroethene	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Vinyl Acetate	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Vinyl chloride	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
Xylenes, Total	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
cis-1,3-Dichloropropene	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
trans-1,3-Dichloropropene	0.010	mg/L	C	U		0.010	mg/L	C	U		0.010	mg/L	C	U	
NA															

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000291

TABLE E-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK			TRIP BLANK			TRIP BLANK					
SAMPLE NUMBER	116240	116251	116260	116243	116252, 116257, 116256	116264	SAMPLING DATE	05/06/93	05/07/93	05/12/93		
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	UJ	0.011	mg/L	C	UJ	0.010	mg/L	C	UJ
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	UJ
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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TABLE E-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK			TRIP BLANK			TRIP BLANK					
SAMPLE NUMBER	116282			116333			116334					
ASSOCIATED SAMPLES	116283, 116301, 116312, 116308			116331, 116332			116336, 116337, 116338, 116335					
SAMPLING DATE	05/13/93			05/19/93			05/20/93					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS			
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	UJ	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ
Acetone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Benzene	0.007	mg/L	C	J	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ
Styrene	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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TABLE E-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK				TRIP BLANK				TRIP BLANK			
SAMPLE NUMBER	116339				116391				116435			
ASSOCIATED SAMPLES	116340, 116341				116392				116427			
SAMPLING DATE	05/21/93				06/07/93				05/25/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	3	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	3	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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TABLE E-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK			
SAMPLE NUMBER	116449			
ASSOCIATED SAMPLES	116438, 116441			
SAMPLING DATE	05/27/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>				
1,1,1-Trichloroethane	0.010	mg/L	C	UJ
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	UJ
1,1,2-Trichloroethane	0.010	mg/L	C	UJ
1,1-Dichloroethane	0.010	mg/L	C	UJ
1,1-Dichloroethene	0.010	mg/L	C	UJ
1,2-Dichloroethane	0.010	mg/L	C	UJ
1,2-Dichloroethene	0.010	mg/L	C	UJ
1,2-Dichloropropane	0.010	mg/L	C	UJ
2-Butanone	0.010	mg/L	C	UJ
2-Hexanone	0.010	mg/L	C	UJ
4-Methyl-2-pentanone	0.010	mg/L	C	UJ
Acetone	0.002	mg/L	C	J
Benzene	0.010	mg/L	C	UJ
Bromodichloromethane	0.010	mg/L	C	UJ
Bromoform	0.010	mg/L	C	UJ
Bromomethane	0.010	mg/L	C	UJ
Carbon Tetrachloride	0.010	mg/L	C	UJ
Carbon disulfide	0.010	mg/L	C	UJ
Chlorobenzene	0.010	mg/L	C	UJ
Chloroethane	0.010	mg/L	C	UJ
Chloroform	0.010	mg/L	C	UJ
Chloromethane	0.010	mg/L	C	R
Dibromochloromethane	0.010	mg/L	C	UJ
Ethylbenzene	0.010	mg/L	C	UJ
Methylene chloride	0.010	mg/L	C	UJ
Styrene	0.010	mg/L	C	UJ
Toluene	0.010	mg/L	C	UJ
Trichloroethene	0.010	mg/L	C	UJ
Vinyl Acetate	0.010	mg/L	C	UJ
Vinyl chloride	0.010	mg/L	C	UJ
Xylenes, Total	0.010	mg/L	C	UJ
cis-1,3-Dichloropropene	0.010	mg/L	C	UJ
trans-1,3-Dichloropropene	0.010	mg/L	C	UJ

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TABLE E-15

TABLE E-15
INACTIVE FLYASH PILE
ON-SITE LABORATORY SCREENING RESULTS
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SURFACE WATER SCREENING SAMPLES

Location	Sample No.	Description	Date Collected	Total Uranium ($\mu\text{g/L}$)
IFP-SW-02	111829	Drainage West of IFP	4/26/93	160
IFP-SW-02	112024	Surface Water (Dup of 111829)	4/30/93	830
IFP-SW-03	111824	Paddys Run Upstream of IFP	4/21/93	6.0
IFP-SW-03	112026	Surface Water (Dup of 111824)	5/1/93	5.5
IFP-SW-04	111822	Surface Water East of IFP	4/21/93	6.0
IFP-SW-04	112019	Surface Water East of IFP	4/29/93	5.0
IFP-SW-05	112029	Drainage West of IFP	5/2/93	910
IFP-SW-06	112030	Drainage West of IFP	5/2/93	23
IFP-SW-06a	112031	Drainage West of IFP	5/2/93	23
IFP-SW-07	112032	Drainage West of IFP	5/2/93	20
IFP-SW-08	112033	Drainage West of IFP	5/2/93	11
IFP-SW-09	112034	Drainage West of IFP	5/2/93	81
IFP-SW-10	113491	Drainage West of IFP	5/7/93	280
IFP-SW-11	116459	Surface Water	5/18/93	820
IFP-SW-12	116460	Surface Water	5/18/93	370

GROUNDWATER SCREENING SAMPLES

Location	Sample No.	Description	Sample Interval ^a (ft.)	Date Collected	Total Uranium ($\mu\text{g/L}$)
1047	110893	Existing Monitoring Well	NA ^b	4/27/93	6.1
1999	111922	Hydropunch	8.0-12.0	4/19/93	460
2016	112007	Existing Monitoring Well	NA	4/30/93	19
2047	110895	Existing Monitoring Well	NA	4/27/93	11
2402	116227	Existing Monitoring Well	NA	5/5/93	15
2402	116228	Existing Monitoring Well	NA	5/5/93	14
2955	113803	New Monitoring Well	NA	6/22/93	8.3
11000	111759	Hydropunch	13.0-17.0	4/13/93	410
11001	111690	Hydropunch	17.0-21.0	4/13/93	280
11002	116461	Hydropunch	13.0	5/5/93	6700
11003	111840	Hydropunch	22.0-26.0	4/19/93	720
11004	111855	Hydropunch	20.0-24.0	4/18/93	29

See footnotes at end of table

TABLE E-15
(Continued)

GROUNDWATER SCREENING SAMPLES (Continued)

Location	Sample No.	Description	Sample Interval ^a (ft.)	Date Collected	Total Uranium ($\mu\text{g/L}$)
11007	110679	Hydropunch	20.0-24.0	4/21/93	9.5
11047	116318	Hydropunch	8.0-12.0	5/16/93	19
11048	116351	Boring/Hydropunch	22.0-24.0	5/26/93	430
11049	116356	Hydropunch	7.5-11.5	5/28/93	77
11050	116454	Hydropunch	10.5-14.5	6/4/93	370
11051	116437	Hydropunch	17-21	5/27/93	74

SUBSURFACE SCREENING SAMPLES

Location	Sample No.	Sample Interval (ft.)	Date Collected	Total Uranium ($\mu\text{g/g}$)	Total Thorium ($\mu\text{g/g}$)
1994	116265	3.5-4.0	5/12/93	5	- ^c
1994	116277	11.5-12.0	5/12/93	6	-
1994	116284	15.5-16.0	5/13/93	6	-
1994	116293	21.5-22.0	5/13/93	3	-
1994	116302	27.5-28.0	5/13/93	<11	-
1994	116313	37.5-38.0	5/13/93	<11	-
1994	116314	37.5-38.0	5/13/93	<11	-
1995	116081	3.0-4.0	5/1/93	16	-
1995	116091	9.0-9.5	5/1/93	3	-
1995	116094	11.0-11.5	5/1/93	5	-
1995	116103	17.0-17.5	5/1/93	10	-
1995	116115	25.5-26.0	5/1/93	5	-
1995	116118	27.5-28.0	5/1/93	2	-
1995	116173	31.5-32.0	5/2/93	5	-
1996	112079	9.5-10.0	4/29/93	23	-
1996	112086	15.0-15.5	4/29/93	6	-
1996	116072	21.5-22.0	4/29/93	<11	-
1997	116178	1.5-2.0	5/5/93	<11	-
1997	116184	5.5-6.0	5/5/93	40	-
1997	116193	11.5-12.0	5/5/93	6	-
1997	116199	15.5-16.0	5/5/93	12	-
1997	116241	28.0-28.5	5/6/93	8	-
1997	116244	30.0-30.5	5/6/93	<11	-
1997	116253	35.5-36.0	5/7/93	22	-
1997	116258	39.0-39.5	5/7/93	<11	-

See footnotes at end of table

TABLE E-15
(Continued)

SUBSURFACE SCREENING SAMPLES (Continued)

Location	Sample No.	Sample Interval (ft.)	Date Collected	Total Uranium ($\mu\text{g/g}$)	Total Thorium ($\mu\text{g/g}$)
1998	112044	1.5-2.0	4/28/93	120	-
1998	112053	7.5-8.0	4/28/93	<11	-
1998	112059	11.5-12.0	4/28/93	<11	-
1998	112066	18.5-19.0	4/28/93	<11	-
1999	111920	12.0-12.5	4/19/93	<11	-
1999	111921	12.5-13.0	4/19/93	<11	-
2955	112955	50.0-65.0	4/30/93	<11	-
11000	111762	16.5-17.0	4/15/93	<11	-
11000	111763	17.0-17.5	4/15/93	<11	-
11000	111764	17.5-18.0	4/15/93	<11	-
11001	111731	21.5-22.0	4/13/93	<11	-
11002	116462	16.5	5/5/93	<11	-
11003	111854	25.5-26.0	4/17/93	378	-
11004	111895	24.0-24.5	4/18/93	<11	-
11004	111896	24.5-25.0	4/18/93	<11	-
11005	111984	10.5-11.0	4/29/93	165	-
11005	116121	18.0-18.5	4/29/93	12	-
11006	111966	22.5-24.0	4/26/93	3300	-
11006	111969	28.0-28.5	4/26/93	26	-
11007	110678	22.5-23.0	4/21/93	<11	-
11008	116154	21.0-21.5	5/2/93	<11	-
11048	116344	21.0-22.0	5/25/93	<11	-
11048	116348	26.0-27.5	5/26/93	<11	-
11049	116353	6.5-8.0	5/27/93	<11	-
11049	116355	6.5-8.0	5/27/93	<11	<18
11049	116358	11.5-12.5	5/28/93	<11	-
11049	116360	11.5-12.5	5/28/93	<11	<18
11050	116453	10.0-12.0	6/3/93	<11	<18
11050	116456	16.0-18.0	6/7/93	<11	<18
11051	116439	21.0-22.0	5/27/93	1010	-
11051	116442	22.0-24.0	5/27/93	1470	-
11051	116445	28.0-30.0	5/27/93	<11	-
11052	116428	19.0-21.0	5/25/93	1000	-
11052	116431	25.0-27.0	5/25/93	<11	-

See footnotes at end of table

TABLE E-15
(Continued)

SUBSURFACE SCREENING SAMPLES (Continued)

Location	Sample No.	Sample Interval (ft.)	Date Collected	Total Uranium ($\mu\text{g/g}$)	Total Thorium ($\mu\text{g/g}$)
11053	116420	18.0-20.0	5/20/93	<11	-
11053	116422	24.0-26.0	5/21/93	<11	-

GAMMA SCREENING SAMPLES

Location	Sample No.	Sample Interval (ft.)	Date Collected	Gamma Activity (pCi/g)
1995	116082	3.5-4.0	5/1/93	<28
1995	116092	9.0-9.5	5/1/93	<57
1995	116095	11.0-11.5	5/1/93	<58
1995	116104	17.0-17.5	5/1/93	<58
1995	116116	25.5-26.0	5/1/93	<57
1995	116169	27.5-28.0	5/1/93	<29
1995	116174	31.5-32.0	5/2/93	<29
1996	112085	15-15.5	4/29/93	<41
1996	116071	21.5-22.0	4/29/93	<29
1997	116179	1.5-2.0	5/5/93	<58
1997	116185	5.5-6.0	5/5/93	<40
1997	116194	11.5-12.0	5/5/93	<40
1997	116200	15.5-16.0	5/5/93	<40
1997	116242	28.0-28.5	5/6/93	<40
1997	116245	30.0-30.5	5/6/93	<58
1997	116254	35.5-36.0	5/7/93	<29
1997	116259	39.0-39.5	5/7/93	<28
1998	112043	1.5-2.0	4/28/93	<40
1998	112052	7.5-8.0	4/28/93	<57
1998	112058	11.5-12.0	4/28/93	<57
1998	112067	18.5-19.0	4/28/93	<57
11048	116343	21.0-22.0	5/25/93	<29
11048	116347	26.0-27.5	5/26/93	<28
11049	116352	6.5-8.0	5/27/93	<28
11049	116354	6.5-8.0	5/27/93	<20
11049	116357	6.5-8.0	5/28/93	<28
11049	116359	11.5-12.5	5/28/93	<20
11050	116450	10.0-12.0	6/3/93	<28
11050	116455	16.0-18.0	6/7/93	<27
11051	116440	21.0-22.0	5/27/93	36

See footnotes at end of table

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FEMP-OU02-6 FINAL
January 21, 1995**TABLE E-15**
(Continued)**GAMMA SCREENING SAMPLES**
(continued)

Location	Sample No.	Sample Interval (ft.)	Date Collected	Gamma Activity (pCi/g)
11051	116443	22.0-24.0	5/27/93	76
11051	116446	28.0-30.0	5/27/93	<27
11052	116429	19.0-21.0	5/25/93	30
11052	116432	25.0-27.0	5/25/93	<28
11053	116424	18.0-20.0	5/20/93	<28
11053	116426	24.0-26.0	5/21/93	<27

ALPHA/BETA SCREENING SAMPLES

Location	Sample No.	Sample Interval (ft.)	Date Collected	Alpha Activity (pCi/g)	Beta Activity (pCi/g)
11006	111962	22.5-24.0	4/26/93	710	780

^aThe sample interval is depth, in feet, below the ground surface.^bNA = Not applicable.^cThe sample was not analyzed for total thorium.

TABLE E-16

TABLE E-16A
INACTIVE FLYASH PILE
ON-SITE LABORATORY SCREENING RESULTS
ACTIVITY CONCENTRATION OF CIS PROFILE SAMPLES
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Begin - End Depth (feet)	Radionuclide	Qualifier ^a	Activity Concentration (pCi/g)	Uncertainty (pCi/g)
BOREHOLE 24-10				
0 - 1	Radium-226	<	1.80	NA ^b
0 - 1	Thorium-232		1.80	0.90
0 - 1	Uranium-238		19.80	5.40
1 - 2	Radium-226		1.20	0.40
1 - 2	Thorium-232	<	0.40	NA
1 - 2	Uranium-238		11.80	4.20
2 - 3	Radium-226		2.50	0.70
2 - 3	Thorium-232		1.60	1.00
2 - 3	Uranium-238		20.20	5.00
3 - 4	Radium-226		2.70	1.00
3 - 4	Thorium-232		2.90	1.30
3 - 4	Uranium-238		23.50	7.60
4 - 5	Radium-226		3.70	0.60
4 - 5	Thorium-232		2.70	1.00
4 - 5	Uranium-238	<	7.70	NA
5 - 6	Radium-226		2.40	0.80
5 - 6	Thorium-232		3.50	0.80
5 - 6	Uranium-238	<	16.50	NA
6 - 7	Radium-226		2.00	0.70
6 - 7	Thorium-232		2.50	0.80
6 - 7	Uranium-238		18.00	4.30
7 - 8	Radium-226		3.00	0.80
7 - 8	Thorium-232	<	4.30	NA
7 - 8	Uranium-238	<	14.70	NA
8 - 9	Radium-226		2.80	0.80
8 - 9	Thorium-232		2.40	0.80
8 - 9	Uranium-238	<	8.30	NA
9 - 10	Radium-226		3.00	0.80
9 - 10	Thorium-232		1.50	0.80
9 - 10	Uranium-238	<	11.00	NA
10 - 11	Radium-226		2.90	0.60
10 - 11	Thorium-232		2.60	0.80
10 - 11	Uranium-238	<	7.70	NA

See footnotes at end of table

TABLE E-16A
(Continued)

Begin - End Depth (feet)	Radionuclide	Qualifier ^a	Activity Concentration (pCi/g)	Uncertainty (pCi/g)
BOREHOLE 24-10 (Continued)				
11 - 12	Radium-226		2.10	0.60
11 - 12	Thorium-232		1.60	0.50
11 - 12	Uranium-238	<	6.90	NA
12 - 13	Radium-226		2.10	0.60
12 - 13	Thorium-232		3.00	0.90
12 - 13	Uranium-238	<	15.60	NA
13 - 14	Radium-226		1.50	0.50
13 - 14	Thorium-232		1.00	0.60
13 - 14	Uranium-238	<	11.50	NA
14 - 15	Radium-226	<	0.70	NA
14 - 15	Thorium-232		0.80	0.60
14 - 15	Uranium-238	<	5.20	NA
15 - 16	Radium-226		2.50	0.80
15 - 16	Thorium-232		1.50	0.60
15 - 16	Uranium-238		135.00	8.00
16 - 17	Radium-226		2.90	0.90
16 - 17	Thorium-232		1.50	0.90
16 - 17	Uranium-238		40.50	6.50
17 - 18	Radium-226		4.00	0.80
17 - 18	Thorium-232	<	2.10	NA
17 - 18	Uranium-238		81.60	7.50
18 - 19	Radium-226		2.60	0.60
18 - 19	Thorium-232	<	1.40	NA
18 - 19	Uranium-238		74.40	6.30
19 - 20	Radium-226		1.20	0.40
19 - 20	Thorium-232	<	0.80	NA
19 - 20	Uranium-238		8.90	4.00
20 - 21	Radium-226		7.00	0.90
20 - 21	Thorium-232	<	3.00	NA
20 - 21	Uranium-238		139.00	9.00
21 - 22	Radium-226		7.90	1.10
21 - 22	Thorium-232	<	3.70	NA
21 - 22	Uranium-238		160.00	11.00
22 - 24	Radium-226		5.10	1.10
22 - 24	Thorium-232		2.20	1.00
22 - 24	Uranium-238		104.00	11.00

See footnotes at end of table

TABLE E-16A
(Continued)

Begin - End Depth (feet)	Radionuclide	Qualifier ^a	Activity Concentration (pCi/g)	Uncertainty (pCi/g)
BOREHOLE 24-10 (Continued)				
24 - 26	Radium-226		1.40	0.70
24 - 26	Thorium-232	<	0.40	NA
24 - 26	Uranium-238		10.00	3.50
BOREHOLE 24-11				
0 - 1	Radium-226		1.70	0.80
0 - 1	Thorium-232		2.20	1.00
0 - 1	Uranium-238	<	15.10	NA
1 - 2	Radium-226		1.10	0.50
1 - 2	Thorium-232		1.30	0.60
1 - 2	Uranium-238		17.00	3.50
2 - 3	Radium-226		1.00	0.70
2 - 3	Thorium-232		1.50	0.80
2 - 3	Uranium-238		13.70	4.00
3 - 4	Radium-226	<	0.80	NA
3 - 4	Thorium-232		1.50	0.80
3 - 4	Uranium-238		9.10	3.50
4 - 5	Radium-226	<	0.90	NA
4 - 5	Thorium-232		1.30	0.80
4 - 5	Uranium-238	<	10.90	NA
5 - 6	Radium-226		1.70	0.90
5 - 6	Thorium-232		1.00	0.60
5 - 6	Uranium-238		7.60	4.20
6 - 7	Radium-226		1.70	0.60
6 - 7	Thorium-232		2.20	0.70
6 - 7	Uranium-238		11.90	5.00
7 - 8	Radium-226		2.90	0.60
7 - 8	Thorium-232		3.10	0.60
7 - 8	Uranium-238	<	10.30	NA
8 - 9	Radium-226		1.80	1.00
8 - 9	Thorium-232		2.60	0.90
8 - 9	Uranium-238	<	10.70	NA
9 - 10	Radium-226		2.60	0.90
9 - 10	Thorium-232		2.00	1.20
9 - 10	Uranium-238	<	10.20	NA
10 - 11	Radium-226		2.10	0.70
10 - 11	Thorium-232		2.90	0.60

See footnotes at end of table

TABLE E-16A
(Continued)

Begin - End Depth (feet)	Radionuclide	Qualifier ^a	Activity Concentration (pCi/g)	Uncertainty (pCi/g)
BOREHOLE 24-11 (Continued)				
10 - 11	Uranium-238	<	9.30	NA
11 - 12	Radium-226		2.00	0.60
11 - 12	Thorium-232		2.20	1.50
11 - 12	Uranium-238	<	9.20	NA
12 - 13	Radium-226		1.90	0.60
12 - 13	Thorium-232		1.80	0.70
12 - 13	Uranium-238	<	16.40	NA
13 - 14	Radium-226		2.10	0.90
13 - 14	Thorium-232		1.90	1.00
13 - 14	Uranium-238	<	9.60	NA
14 - 15	Radium-226		2.00	1.40
14 - 15	Thorium-232		2.20	0.80
14 - 15	Uranium-238	<	15.00	NA
15 - 16	Radium-226		2.60	0.80
15 - 16	Thorium-232		2.20	1.40
15 - 16	Uranium-238	<	6.20	NA
16 - 17	Radium-226		1.80	0.60
16 - 17	Thorium-232		2.90	0.90
16 - 17	Uranium-238	<	9.80	NA
17 - 18	Radium-226		1.50	0.80
17 - 18	Thorium-232		3.30	0.90
17 - 18	Uranium-238	<	10.10	NA
18 - 19	Radium-226	<	2.50	NA
18 - 19	Thorium-232		3.60	0.80
18 - 19	Uranium-238	<	9.50	NA
19 - 20	Radium-226		2.00	0.80
19 - 20	Thorium-232		2.20	0.80
19 - 20	Uranium-238	<	8.50	NA
20 - 21	Radium-226	<	2.30	NA
20 - 21	Thorium-232		3.50	0.90
20 - 21	Uranium-238	<	10.80	NA
21 - 22	Radium-226		2.30	1.20
21 - 22	Thorium-232		2.90	0.80
21 - 22	Uranium-238	<	17.60	NA
22 - 23	Radium-226		2.10	0.90
22 - 23	Thorium-232	<	4.70	NA

See footnotes at end of table

TABLE E-16A
(Continued)

Begin - End Depth (feet)	Radionuclide	Qualifier ^a	Activity Concentration (pCi/g)	Uncertainty (pCi/g)
BOREHOLE 24-11 (Continued)				
22 - 23	Uranium-238	<	11.30	NA
23 - 24	Radium-226		1.80	0.70
23 - 24	Thorium-232		2.60	0.70
23 - 24	Uranium-238	<	13.00	NA
24 - 25	Radium-226		1.90	0.90
24 - 25	Thorium-232		1.10	0.60
24 - 25	Uranium-238		14.10	6.90
25 - 26	Radium-226		1.90	0.80
25 - 26	Thorium-232		2.40	1.00
25 - 26	Uranium-238	<	18.70	NA
26 - 27	Radium-226		1.30	0.60
26 - 27	Thorium-232		1.70	1.10
26 - 27	Uranium-238		6.30	4.40
27 - 28	Radium-226		1.60	0.60
27 - 28	Thorium-232		2.40	0.80
27 - 28	Uranium-238		5.30	2.40
28 - 29	Radium-226		1.20	0.90
28 - 29	Thorium-232	<	3.70	NA
28 - 29	Uranium-238	<	12.00	NA
29 - 30	Radium-226		1.80	0.80
29 - 30	Thorium-232		1.60	1.00
29 - 30	Uranium-238		15.90	3.80
30 - 31	Radium-226		1.40	0.80
30 - 31	Thorium-232		1.90	0.60
30 - 31	Uranium-238		2.60	2.00
31 - 32	Radium-226		1.00	0.30
31 - 32	Thorium-232		1.00	0.30
31 - 32	Uranium-238	<	3.50	NA
32 - 33	Radium-226		0.80	0.50
32 - 33	Thorium-232		0.80	0.30
32 - 33	Uranium-238	<	4.40	NA
33 - 34	Radium-226		1.00	0.40
33 - 34	Thorium-232		0.60	0.40
33 - 34	Uranium-238	<	4.30	NA

^aQualifiers are from the laboratory. No data validation was performed on screening data. < = less than.^bNA = Not applicable

TABLE E-16B
INACTIVE FLYASH PILE
CIS SURFACE SOIL ON-SITE ANALYTICAL DATA
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

FEMP ID#	Isotope	Activity (pCi/g)	Uncertainty	Lab. Qual.
FMP-SL-24-023	Cesium-137	0.5	0.3	
	Potassium-40	8.1	3	
	Radium-226	2.2	0.5	
	Ruthenium-106	3.2		<
	Thorium-232	1.3		<
	Uranium-238	6.3		<
FMP-SL-24-024	Cesium-137	0.8		<
	Potassium-40	6.1	2.9	
	Radium-226	3	0.5	
	Ruthenium-106	5.6		<
	Thorium-232	0.9	0.5	
	Uranium-238	7.9	2.8	
FMP-SL-24-025	Cesium-137	0.4		<
	Potassium-40	4.1		<
	Radium-226	2.8	0.5	
	Ruthenium-106	5.6		<
	Thorium-232	1.3	0.5	
	Uranium-238	13		<
FMP-SL-24-138	Cesium-137	0.9		<
	Potassium-40	20.1		<
	Radium-226	2.2		<
	Ruthenium-106	5.7		<
	Thorium-232	4.3	0.8	
	Uranium-238	37.1	5.7	

TABLE E-16B
(Continued)

FEMP ID#	Isotope	Activity (pCi/g)	Uncertainty	Lab. Qual.
FMP-SL-24-139	Cesium-137	0.5		<
	Potassium-40	17.9		<
	Radium-226	1.2		<
	Ruthenium-106	4.1		<
	Thorium-232	3	0.6	
	Uranium-238	25.7	6.4	
FMP-SL-24-145	Cesium-137	0.9		<
	Potassium-40	5.3	2.6	
	Radium-226	7.4	0.8	
	Ruthenium-106	6.8		<
	Thorium-232	3.3	1	
	Uranium-238	11.7	6.4	
FMP-SL-24-184	Cesium-137	1.80		<
	Radium-226	3.50		<
	Ruthenium-106	11.10		<
	Thorium-232	19.80	±1.10	NA
	Uranium-238	36.70		<
FMP-SL-24-186	Cesium-137	0.1		<
	Potassium-40	7.3		<
	Radium-226	1		<
	Ruthenium-106	6.5		<
	Thorium-232	0.9	0.4	
	Uranium-238	2.5	2.2	
FMP-SL-24-186D	Cesium-137	0.5		<
	Potassium-40	8.7		<
	Radium-226	0.7		<
	Ruthenium-106	7.9		<

TABLE E-16B
(Continued)

FEMP ID#	Isotope	Activity (pCi/g)	Uncertainty	Lab. Qual.
FMP-SL-24-186D (Continued)	Thorium-232	0.3		<
	Uranium-238	6.5		<
FMP-SL-24-187	Cesium-137	0.6		<
	Potassium-40	6.9	2.8	
	Radium-226	0.8	0.4	
	Ruthenium-106	3.7		<
	Thorium-232	3.8	0.8	
	Uranium-238	16.3	4.3	
FMP-SL-24-188	Cesium-137	1.1		<
	Potassium-40	7.7	3	
	Radium-226	2		<
	Ruthenium-106	7.1		<
	Thorium-232	5.5	0.7	
	Uranium-238	33.8	6.4	
FMP-SL-24-214	Cesium-137	0.7		<
	Potassium-40	0.9		<
	Radium-226	2.3		<
	Ruthenium-106	2.8		<
	Uranium-238	19.8	5.7	
FMP-SL-24-215QC	Cesium-137	0.6		<
	Potassium-40	8.6		<
	Radium-226	2.3		<
	Ruthenium-106	10.5		<
	Thorium-232	5.4	0.7	
	Uranium-238	17.6	5.4	

TABLE E-16B
(Continued)

FEMP ID#	Isotope	Activity (pCi/g)	Uncertainty	Lab. Qual.
FMP-SL-24-216	Cesium-137	0.6		<
	Potassium-40	12.3	6.1	
	Radium-226	1	0.4	
	Ruthenium-106	5		<
	Thorium-232	2.8	0.6	
	Uranium-238	17.3	3.8	
FMP-SL-24-216D	Cesium-137	0.8		<
	Potassium-40	9.6	3.5	
	Radium-226	0.7	0.5	
	Ruthenium-106	4.5		<
	Thorium-232	2.5	0.5	
	Uranium-238	16.6	6.2	
FMP-SL-24-217QC	Cesium-137	0.6		<
	Potassium-40	7.5	3.4	
	Radium-226	1.7	0.5	
	Ruthenium-106	8.7		<
	Thorium-232	3.3	0.6	
	Uranium-238	17.5	4.3	
FMP-SL-24-218	Cesium-137	1.3		<
	Potassium-40	9.9		<
	Radium-226	2.3	0.7	
	Ruthenium-106	11.3		<
	Thorium-232	2.2	0.8	
	Uranium-238	27.8	6.3	
FMP-SL-24-219	Cesium-137	0.4		<
	Potassium-40	8.5		<
	Radium-226	2	0.5	

TABLE E-16B
(Continued)

FEMP ID#	Isotope	Activity (pCi/g)	Uncertainty	Lab. Qual.
FMP-SL-24-219 (Continued)	Ruthenium-106	8.3		<
	Thorium-232	0.5		<
	Uranium-238	37.9	6.6	
FMP-SL-24-225	Cesium-137	1.7		<
	Potassium-40	18.1	4.9	
	Radium-226	41.3	1.9	
	Ruthenium-106	21		<
	Thorium-232	2.5		<
	Uranium-238	32.8		<
FMP-SL-24-226	Cesium-137	1.7		<
	Potassium-40	13		<
	Radium-226	23.2	1.5	
	Ruthenium-106	6		<
	Thorium-232	2.3	1.6	
	Uranium-238	5.2	3.2	
FMP-SL-24-226D	Cesium-137	1.4		<
	Potassium-40	17		<
	Radium-226	25.6	1.5	
	Ruthenium-106	6.3		<
	Thorium-232	8.6		<
	Uranium-238	32.7		<
FMP-SL-24-227	Cesium-137	0.10		<
	Radium-226	6.00	±0.80	NA
	Ruthenium-106	0.70		<
	Thorium-232	5.70		<
	Uranium-238	23.50		<

TABLE E-16B
(Continued)

FEMP ID#	Isotope	Activity (pCi/g)	Uncertainty	Lab. Qual.
FMP-SS-24-003	Cesium-137	0.5	0.4	
	Potassium-40	13.1		<
	Radium-226	1.9	0.6	
	Ruthenium-106	1		<
	Thorium-232	2.1	0.6	
	Uranium-238	7.7	3.4	
FMP-SS-24-005	Cesium-137	0.7	0.3	
	Potassium-40	10.3	4.3	
	Radium-226	2	0.6	
	Ruthenium-106	0.7		<
	Thorium-232	1.2	0.5	
	Uranium-238	5.5	2.4	
FMP-SS-24-137	Cesium-137	2.3		<
	Potassium-40	11.2	5	
	Radium-226	5.9		<
	Ruthenium-106	23.7		<
	Thorium-232	5.3	2.2	
	Uranium-238	204	24	
FMP-SS-24-144	Cesium-137	0.5		<
	Potassium-40	7.4	3.4	
	Radium-226	4.9	0.6	
	Ruthenium-106	3.4		<
	Thorium-232	3.4	0.7	
	Uranium-238	11.6		<
FMP-SS-24-213	Cesium-137	1.4		<
	Potassium-40	9.2	3.6	
	Radium-226	0.6	0.5	

TABLE E-16B
(Continued)

FEMP ID#	Isotope	Activity (pCi/g)	Uncertainty	Lab. Qual.
FMP-SS-24-213 (Continued)	Ruthenium-106	0.7		<
	Thorium-232	0.5	0.4	
	Uranium-238	20.6	6.2	
FMP-SS-24-224	Cesium-137	0.3		<
	Ruthenium-106	12.3		<
	Thorium-232	1.2		<
	Uranium-238	17.9		<
	Radium-226	33.5	2.1	
	Potassium-40	29.6		<
FMP-SS-24-241	Cesium-137	8.9		<
	Potassium-40	3.6		<
	Radium-226	20		<
	Ruthenium-106	94.2		<
	Thorium-232	28.2		<
	Uranium-238	3540	112	
FMP-SS-24-242	Cesium-137	1.6		<
	Potassium-40	10.6	3.2	
	Radium-226	1.4	0.9	
	Ruthenium-106	1.4		<
	Thorium-232	1.1		<
	Uranium-238	11.1	4.4	

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FEMP-OU02-6 FINAL
January 21, 1995

TABLE E-16C
INACTIVE FLYASH PILE
CIS FIDLER SURFACE READINGS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Coordinates		
North	East	Reading (CPM)
478019.41	1378899.00	7113.00
478069.38	1378900.38	3852.00
477718.16	1378940.88	4472.00
477768.13	1378942.25	4429.00
477818.13	1378943.63	3798.00
477868.09	1378944.88	4077.00
477918.06	1378946.25	4288.00
477968.06	1378947.63	10753.00
477968.06	1378947.63	4919.00
477974.31	1378947.88	10381.00
477980.56	1378948.00	10990.00
477986.81	1378948.13	12876.00
477993.06	1378948.38	11030.00
477999.28	1378948.50	10034.00
478005.53	1378948.75	10792.00
478011.78	1378948.88	9317.00
478018.03	1378949.00	5469.00
478018.03	1378949.00	11584.00
478068.03	1378950.38	4752.00
478118.00	1378951.75	13762.00
478118.00	1378951.75	4643.00
478124.25	1378952.00	10564.00
478130.50	1378952.13	10472.00
478136.73	1378952.25	10734.00
478143.00	1378952.50	10170.00
478167.97	1378953.13	2811.00
477967.88	1378953.88	11638.00
477974.13	1378954.13	10753.00
477980.38	1378954.25	10486.00
477986.63	1378954.38	13637.00
477992.88	1378954.63	20271.00
477999.13	1378954.75	10959.00
478005.38	1378955.00	10527.00
478011.63	1378955.13	10601.00
478017.88	1378955.25	10527.00
478117.84	1378958.00	12270.00
478124.09	1378958.25	12321.00
478130.31	1378958.38	8671.00
478136.56	1378958.50	8619.00

TABLE E-16C
(Continued)

Coordinates		Reading (CPM)
North	East	
478142.81	1378958.75	7473.00
477967.72	1378960.13	9129.00
477973.97	1378960.38	10381.00
477980.22	1378960.50	9444.00
477986.47	1378960.63	13216.00
477992.72	1378960.88	13101.00
477998.97	1378961.00	16950.00
478005.19	1378961.25	11953.00
478011.44	1378961.38	10001.00
478017.69	1378961.50	9804.00
478117.66	1378964.25	12527.00
478123.91	1378964.50	26201.00
478130.16	1378964.63	9951.00
478136.41	1378964.75	8760.00
478142.66	1378965.00	8409.00
477967.53	1378966.38	10453.00
477973.78	1378966.63	9804.00
477980.03	1378966.75	10618.00
477986.28	1378966.88	15874.00
477992.53	1378967.13	11584.00
477998.78	1378967.25	10249.00
478005.03	1378967.50	10345.00
478011.28	1378967.63	11321.00
478017.53	1378967.75	10601.00
478117.50	1378970.50	6977.00
478123.75	1378970.75	9179.00
478129.97	1378970.88	9879.00
478136.22	1378971.00	6397.00
478142.47	1378971.25	7274.00
477942.38	1378972.00	13236.00
477948.63	1378972.13	9967.00
477954.88	1378972.38	11300.00
477961.13	1378972.50	8218.00
477967.38	1378972.63	9440.00
477973.63	1378972.88	10503.00
477979.88	1378973.00	9231.00
477986.13	1378973.13	9719.00
477992.38	1378973.38	9376.00
478004.88	1378973.63	10601.00
478011.09	1378973.88	10454.00
478017.34	1378974.00	10345.00
478117.31	1378976.75	8334.00
4781235.56	1378976.88	12876.00

TABLE E-16C
(Continued)

Coordinates		
North	East	Reading (CPM)
478129.81	1378977.13	11289.00
478136.06	1378977.25	10453.00
478142.31	1378977.50	10017.00
477942.22	1378978.25	12146.00
477948.47	1378978.38	10870.00
477954.72	1378978.63	9246.00
477960.97	1378978.75	9091.00
477967.19	1378978.88	8781.00
478192.28	1378978.88	7752.00
478198.53	1378979.00	8916.00
478204.78	1378979.13	13393.00
478211.03	1378979.38	15190.00
478217.28	1378979.50	15307.00
478116.97	1378989.25	9519.00
478123.22	1378989.38	6727.00
478129.47	1378989.63	8043.00
478135.72	1378989.75	8269.00
478141.97	1378990.00	8613.00
477716.78	1378990.75	4925.00
477941.88	1378990.75	12766.00
477948.13	1378990.88	9555.00
477954.38	1378991.00	9694.00
477960.63	1378991.25	7634.00
478191.94	1378991.25	8772.00
477966.88	1378991.38	7557.00
478198.19	1378991.50	8983.00
477766.75	1378992.13	4133.00
477816.75	1378993.50	4267.00
477866.72	1378994.88	4436.00
478116.81	1378995.50	10078.00
477891.72	1378995.63	8345.00
478123.06	1378995.63	8463.00
477897.97	1378995.75	7833.00
477904.22	1378996.00	6961.00
478135.56	1378996.00	8022.00
477910.47	1378996.13	9616.00
477916.72	1378996.25	4167.00
477916.72	1378996.25	8475.00
478141.78	1378996.25	7813.00
478117.16	1378983.00	8837.00
478123.41	1378983.13	9837.00
478129.66	1378983.38	9144.00
478135.88	1378983.50	6939.00

TABLE E-16C
(Continued)

North	Coordinates	East	Reading (CPM)
478142.13		1378983.75	7864.00
477942.03		1378984.50	11790.00
477948.28		1378984.63	11742.00
477954.53		1378984.88	9332.00
477960.78		1378985.00	9346.00
477967.03		1378985.13	7854.00
478192.13		1378985.13	9837.00
478198.38		1378985.25	7968.00
477941.69		1378997.00	10205.00
477947.94		1378997.13	9054.00
477954.19		1378997.25	9487.00
477960.44		1378997.50	8119.00
478191.78		1378997.50	7328.00
477966.69		1378997.63	4284.00
477966.69		1378997.63	8380.00
478198.03		1378997.75	8634.00
478016.66		1378999.00	4912.00
478066.66		1379000.38	5921.00
478116.63		1379001.75	7335.00
478116.63		1379001.75	3853.00
477891.56		1379001.88	9361.00
478122.88		1379001.88	7221.00
477897.78		1379002.00	8956.00
478129.13		1379002.13	7875.00
477904.03		1379002.25	10381.00
478135.38		1379002.25	7875.00
477910.28		1379002.38	8231.00
477916.53		1379002.50	10257.00
478141.63		1379002.50	6378.00
478166.63		1379003.13	3105.00
478191.59		1379003.75	10435.00
478197.84		1379004.00	7682.00
477891.38		1379008.13	9601.00
477897.63		1379008.25	9524.00
477903.88		1379008.38	9405.00
477910.13		1379008.63	10990.00
477916.38		1379008.75	11132.00
478191.44		1379010.00	6452.00
478197.69		1379010.25	12346.00
477891.22		1379014.38	9459.00
477897.44		1379014.50	8939.00
477903.69		1379014.63	8903.00
477909.94		1379014.88	9902.00

TABLE E-16C
(Continued)

Coordinates		
North	East	Reading (CPM)
477916.19	1379015.00	10292.00
478191.25	1379016.25	12749.00
478197.50	1379016.50	10870.00
477891.03	1379020.63	9434.00
477897.28	1379020.75	9631.00
477903.53	1379020.88	10939.00
477909.78	1379021.13	8811.00
477916.03	1379021.25	9231.00
478191.09	1379022.50	12270.00
478197.34	1379022.75	9725.00
478190.91	1379028.75	9837.00
478197.16	1379029.00	15666.00
477715.41	1379040.75	4255.00
477765.41	1379042.13	3766.00
477815.38	1379043.50	3906.00
477865.34	1379044.88	5320.00
477915.34	1379046.25	4632.00
477965.31	1379047.63	4477.00
478015.31	1379049.00	4994.00
478115.28	1379051.75	3321.00
478165.25	1379053.13	4919.00
478215.22	1379054.50	5714.00
477989.63	1379073.25	9617.00
477995.88	1379073.50	9376.00
478002.13	1379073.63	13101.00
478008.38	1379073.88	12459.00
478014.63	1379074.00	9524.00
478039.63	1379074.63	9853.00
478045.84	1379074.88	9129.00
478052.09	1379075.00	8903.00
478058.34	1379075.25	8011.00
478064.59	1379075.38	7328.00
477989.47	1379079.50	14564.00
477995.72	1379079.75	12059.00
478001.94	1379079.88	10137.00
478008.19	1379080.13	9719.00
478014.44	1379080.25	13393.00
478039.44	1379080.88	10773.00
478045.69	1379081.13	8621.00
478051.94	1379081.25	9951.00
478058.19	1379081.38	9555.00
478064.44	1379081.63	7605.00
477989.28	1379085.75	16950.00

TABLE E-16C
(Continued)

Coordinates		
North	East	Reading (CPM)
477995.53	1379086.00	17442.00
478001.76	1379086.13	17868.00
478008.03	1379086.38	16485.00
478014.28	1379086.50	15465.00
478039.28	1379087.13	17008.00
478045.50	1379087.38	11236.00
478051.75	1379087.50	11651.00
478058.00	1379087.63	11860.00
478064.25	1379087.88	9757.00
477714.06	1379090.75	4445.00
477989.13	1379092.00	20980.00
477764.03	1379092.13	3557.00
477995.38	1379092.25	26087.00
478001.63	1379092.38	19597.00
478007.84	1379092.63	18634.00
478014.09	1379092.75	19842.00
478039.09	1379093.38	25642.00
477814.00	1379093.50	5027.00
478045.34	1379093.63	19355.00
478051.59	1379093.75	17544.00
478057.84	1379093.88	11729.00
478064.09	1379094.13	13016.00
477864.00	1379094.88	5032.00
477864.00	1379094.88	9804.00
477870.25	1379095.00	10472.00
477876.50	1379095.25	11091.00
477882.72	1379095.38	11561.00
477888.97	1379095.50	11473.00
477913.97	1379096.25	4439.00
477963.97	1379097.63	5379.00
477988.94	1379098.25	18633.00
477995.19	1379098.50	13162.00
478001.44	1379098.63	16665.00
478007.69	1379098.75	19481.00
478013.94	1379099.00	20271.00
478013.94	1379099.00	20135.00
478013.94	1379099.00	9772.00
478020.19	1379099.13	13393.00
478026.44	1379099.38	16484.00
478032.69	1379099.50	15190.00
478038.94	1379099.63	18462.00
478045.19	1379099.88	24692.00
477110.16	1379224.25	3885.00

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TABLE E-16C
(Continued)

Coordinates		
North	East	Reading (CPM)
477160.16	1379225.63	3675.00
477709.94	1379240.75	6112.00
477708.56	1379290.75	8023.00
477758.56	1379292.13	4048.00
477707.22	1379340.63	6837.00
477757.19	1379342.00	3884.00

TABLE E-16D
INACTIVE FLYASH PILE
CIS EXPOSURE RATE MEASUREMENTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Coordinates		
North	East	Reading (microR/HR)
477809.91	1379243.50	13.00
477809.91	1379243.50	14.38
478115.28	1379051.75	13.88
477915.34	1379046.25	14.19

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January 21, 1995

TABLE E-16E
INACTIVE FLYASH PILE
CIS BETA GAMMA DOSE RATE MEASUREMENTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Coordinates		Reading (mRAD/HR)
North	East	
478119.38	1378901.75	0.04
478069.38	1378900.38	0.02
478019.41	1378899.00	0.04
477969.44	1378897.75	0.02
478217.97	1378954.50	0.04
478167.97	1378953.13	0.03
478118.00	1378951.75	0.03
478068.03	1378950.38	0.03
478018.03	1378949.00	0.03
477968.06	1378947.63	0.04
478216.59	1379004.50	0.03
478166.63	1379003.13	0.03
478116.63	1379001.75	0.03
478066.66	1379000.38	0.03
478016.66	1378999.00	0.03
477966.69	1378997.63	0.03
478215.22	1379054.50	0.03
478165.25	1379053.13	0.03
478115.28	1379051.75	0.03
478065.28	1379050.38	0.04
478015.31	1379049.00	0.03
477965.31	1379047.63	0.03
478163.88	1379103.13	0.04
478113.91	1379101.75	0.04
478063.91	1379100.38	0.04
478013.94	1379099.00	0.06
477963.97	1379097.63	0.03
477869.47	1378895.00	0.02
477819.47	1378893.63	0.03
477769.50	1378892.25	0.04
477719.53	1378890.88	0.03
477918.06	1378946.25	0.05
477868.09	1378944.88	0.04

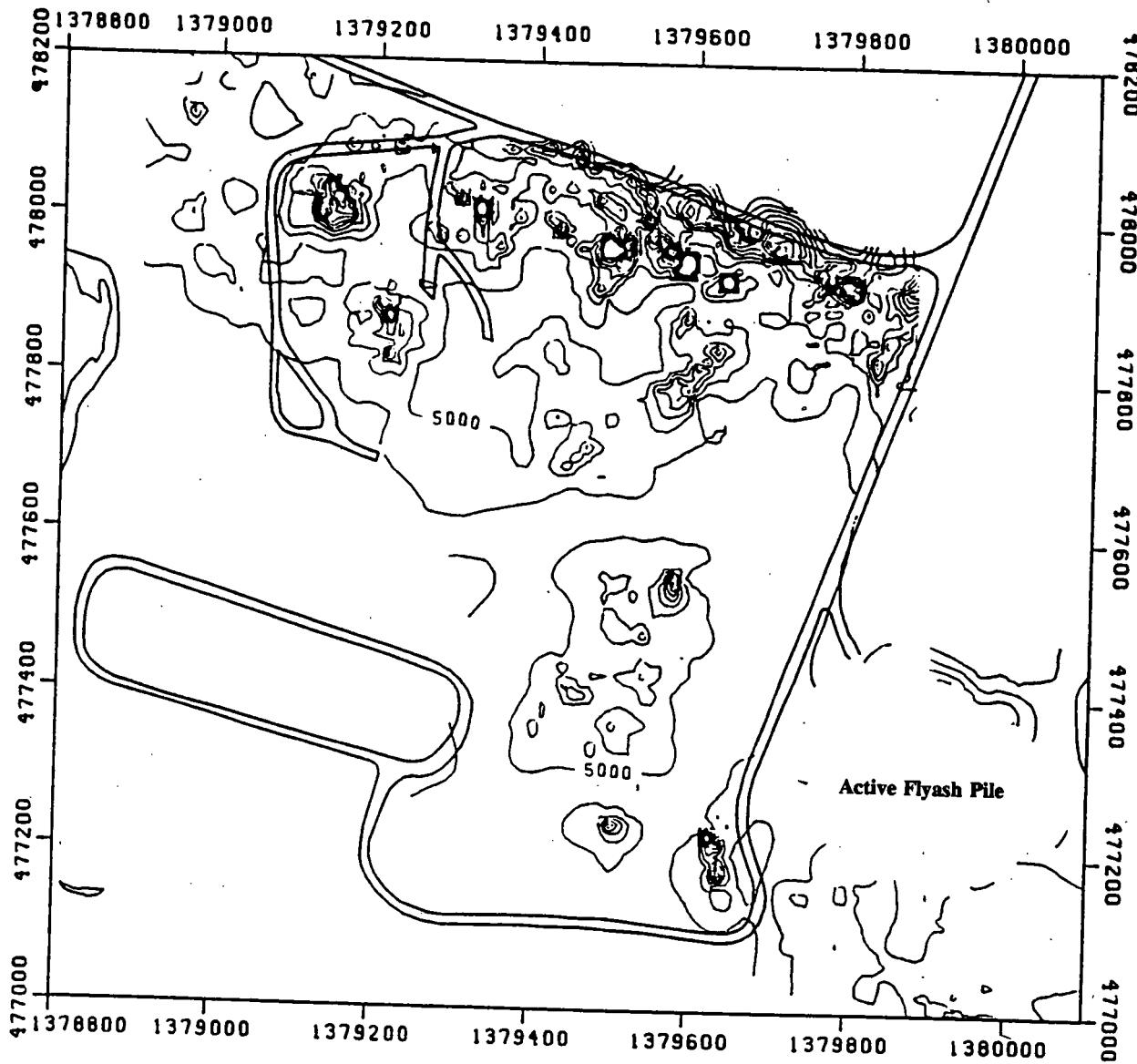
TABLE E-16E
(Continued)

Coordinates		Reading (mRAD/Hr)
North	East	
477818.13	1378943.63	0.03
477768.13	1378942.25	0.03
477718.16	1378940.88	0.04
477916.72	1378996.25	0.03
477866.72	1378994.88	0.03
477816.75	1378993.50	0.04
477766.75	1378992.13	0.04
477716.78	1378990.75	0.03
477915.34	1379046.25	0.04
477865.34	1379044.88	0.03
477815.38	1379043.50	0.03
477765.41	1379042.13	0.03
477715.41	1379040.75	0.03
477913.97	1379096.25	0.04
477864.00	1379094.88	0.03
477814.00	1379093.50	0.03
477764.03	1379092.13	0.03
477714.06	1379090.75	0.02

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FEMP-OU02-6 FINAL
January 21, 1995

FIGURE E-16A
CIS FIDLER MEASUREMENT CONTOURS



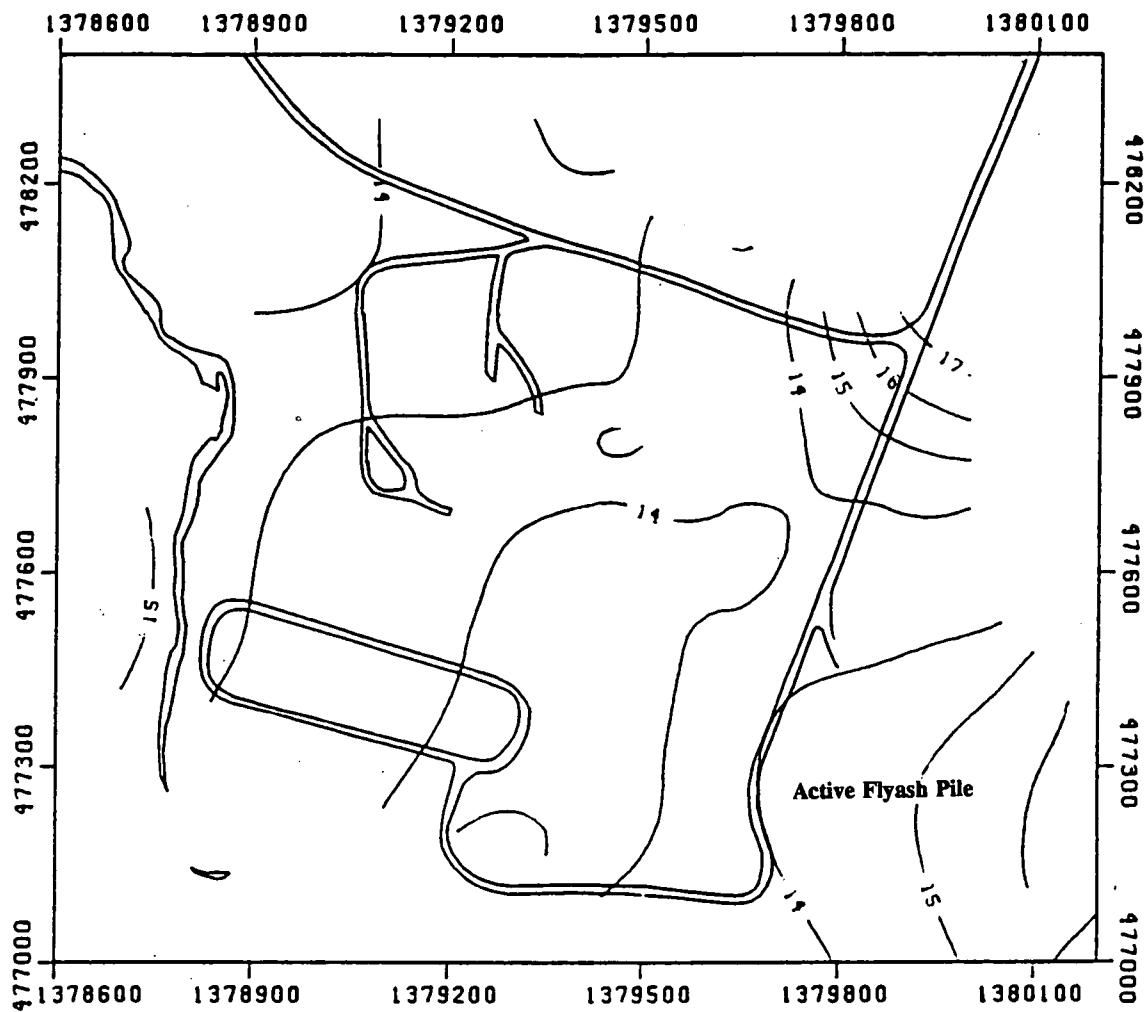
STATE PLANE COORDINATE SYSTEM



OHIO SOUTH ZONE

1 INCH = 225 FEET

FIGURE E-16B
CIS EXPOSURE RATE CONTOURS

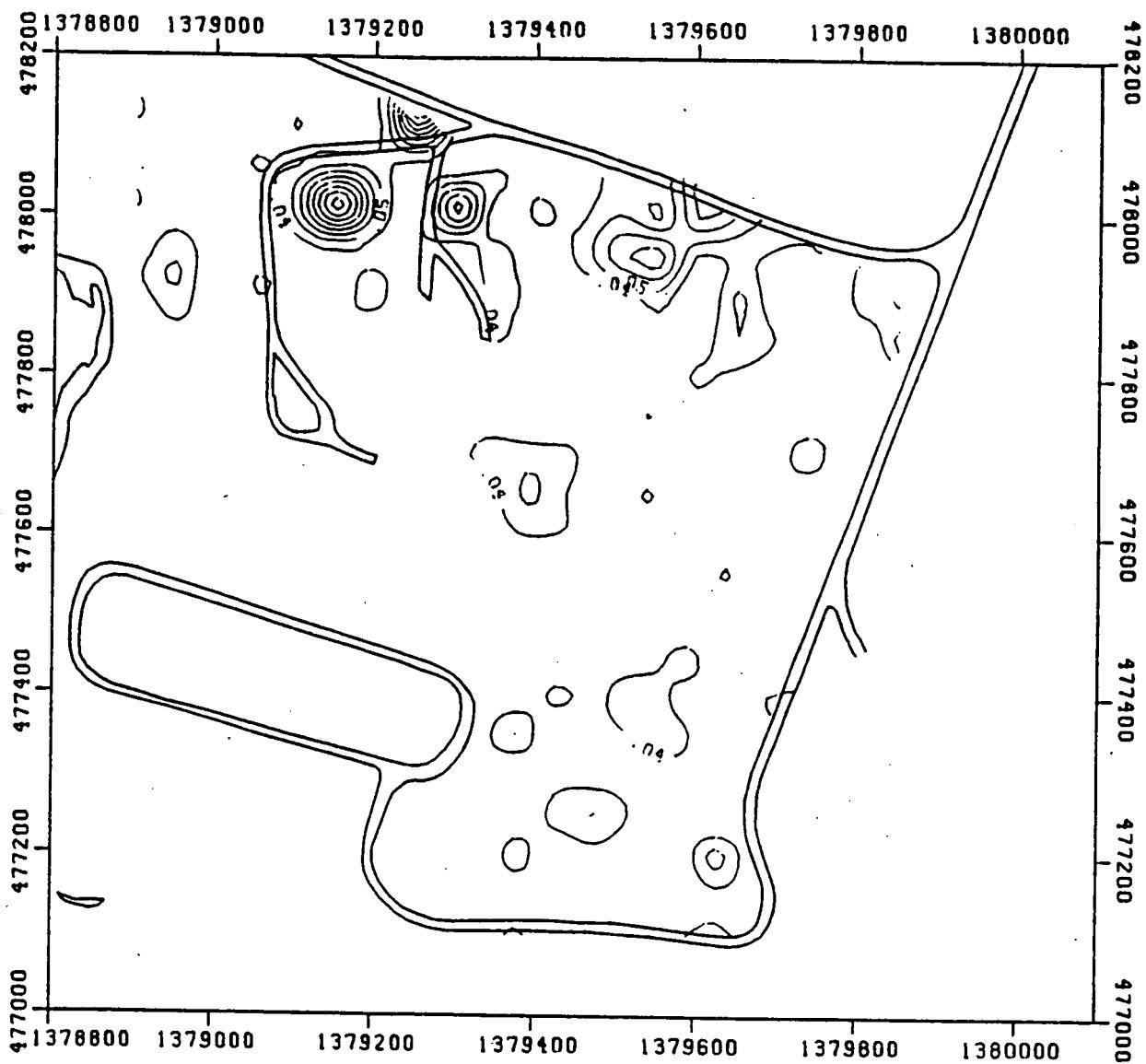


STATE PLANE
COORDINATE SYSTEM
OHIO SOUTH ZONE
1 INCH = 300 FEET

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FEMP-OU02-6 FINAL
January 21, 1995

FIGURE E-16C
CIS BETA GAMMA DOSE RATE CONTOURS



(mRad/hr) CONTOUR INTERVAL IS .01 mRad/hr

STATE PLANE COORDINATE SYSTEM



OH10 SOUTH ZONE

1 INCH = 225 FEET

TABLE E-17

TABLE E-17A

INACTIVE FLYASH PILE
GEOTECHNICAL ANALYSIS
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SURFACE SAMPLES

Location	Wet Density (pcf) ^a	Dry Density (pcf)	Moisture Content (%)
#4	56.3	52.9	6.5
#5	53.7	47.4	13.3

SUBSURFACE SAMPLES

Analysis	Grain Size (mm)	Samples From Location 1708		
		67097	67098	67119
Moisture Content (%)		22.1	32.7	30.3
Specific Gravity		2.3119	2.2553	2.339
Percent Passing by Sieve Analysis	75.0	100	100	100
	37.5	100	100	100
	19.0	100	100	100
	9.5	92.3	95.0	98.3
	4.75	84.5	89.6	94.2
	2.0	74.7	82.0	84.8
	0.85	63.7	73.0	72.9
	0.425	53.4	63.5	62.6
	0.25	44.6	54.6	53.8
	0.106	31.8	38.6	40.5
Percent Passing by Hydrometer Analysis	0.075	27.8	33.7	36.2
	0.0648	- ^b	42.6	40.9
	0.0634	42.0	-	-
	0.0480	-	-	35.5
	0.0473	-	37.1	-
	0.0462	36.7	-	-
	0.0349	-	-	30.2
	0.0346	-	30.6	-
	0.0336	31.3	-	-
	0.0225	-	22.9	-

See footnotes at end of table

TABLE E-17A
(Continued)

SUBSURFACE SAMPLES
(Continued)

Analysis	Grain Size (mm)	Samples From Location 1724		
		67097	67098	67119
Percent Passing by Hydrometer Analysis (Continued)	0.0224	-	-	24.8
	0.0216	25.9	-	-
	0.0136	-	13.1	15.1
	0.0130	18.3	-	-
	0.0098	-	-	10.8
	0.0097	-	9.8	-
	0.0094	12.9	-	-
	0.0069	-	6.5	7.5
	0.0067	9.7	-	-
	0.0050	-	3.3	4.3
	0.0048	6.5	-	-
	0.0035	-	0.0	2.2
	0.0034	4.3	-	-
	0.0015	-	0.0	0.0
	0.0014	2.2	-	-

^apounds per cubic foot

^bNot analyzed for that grain size

TABLE E-17B

**INACTIVE FLYASH PILE
GEOTECHNICAL ANALYSIS
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT**

6509
FEMP-OU02-6 FINAL
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000028

Location	Sample No.	Date Sampled	Sample Interval (ft) ^a	Specific Gravity	Moisture Content (%)	Bulk Density Unit Weight (pcf) ^b	Dry Density (pcf)	Atterberg Limits			Permeability (cm/s)
								Liquid Limit	Plastic Limit	Plasticity Index	
IFP-SS-05	111826	4/22/93	0.0-0.5	- ^c	23.8	-	-	-	-	-	-
1994	116304	5/13/93	28.0-30.0	-	-	133.5	113.9	-	-	-	-
	116309	5/13/93	32.0-34.0	2.2730	20.0	-	-	34	16	18	-
1995	116089	5/11/93	3.0-5.0	-	-	90.2	67.9	-	-	-	-
1996	112080	5/11/93	10.0-12.0	-	-	57.4	40.1	-	-	-	-
1997	116249	5/11/93	32.0-34.0	-	-	128.2	106.5	-	-	-	-
	116255	5/11/93	36.0-38.0	2.7276	13.8	-	-	NP ^d	NP	NP	-
1998	112040	5/11/93	0.0-2.0	2.4096	39.3	-	-	NP	NP	NP	-
	112041	5/11/93	2.0-4.0	-	-	75.9	48.4	-	-	-	-
	112063	5/11/93	14.0-16.0	2.7391	20.8	-	-	NP	NP	NP	-
	112064	5/11/93	16.0-17.0	-	-	142.3	124.5	-	-	-	3.2E ⁻⁸

^aThe sample interval is depth, in feet, below the ground surface

^bPounds per cubic foot

^cThe sample not analyzed for this parameter

^dNP - Nonplastic

TABLE E-17C

**INACTIVE FLYASH PILE
SIEVE ANALYSIS - ASTM D 422
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT**

Location	Sample No.	Date Sampled	Sample Interval (ft) ^a	Classification ^b	Sieve Analysis (% Passing Sieve No.)												
					3"	1.5"	0.75"	0.375"	#4	#10	#20	#40	#60	#100	#140	#200	
IFP-SD-02	111823	4/21/93	0.0-0.5	NA ^c	100	100	97.3	96.9	96.6	94.1	86.7	76.5	63.9	50.2	44.5	41.4	
IFP-SS-05	111826	4/22/93	0.0-0.5	NA	100	100	100	94.8	90.4	83.9	75.1	67.0	59.7	53.2	49.8	47.2	
1994	116309	5/13/93	32.0-34.0	CL	100	100	100	100	99.7	98.9	97.3	88.4	77.3	70.0	66.3	63.5	
1997	116255	5/11/93	36.0-38.0	NP	100	70.5	64.8	61.2	55.4	46.9	42.3	36.3	30.2	26.4	24.8	23.6	
1998	112040	5/11/93	0.0-2.0	NP	100	100	94.1	93.7	92.3	86.7	75.7	65.2	56.9	49.4	44.2	39.1	
	112063	5/11/93	14.0-16.0	NP	100	100	91.4	90.6	86.5	78.8	74.1	70.9	66.4	59.1	54.5	50.9	

^aThe sample interval is depth, in feet, below the ground surface.

^bUnified Soil Classification System (USCS)

CL = Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.

NP = Nonplastic

^cNA = Not Applicable

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0000329

TABLE E-17D

**INACTIVE FLYASH PILE
HYDROMETER ANALYSIS - ASTM D 422
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT**

LOCATION: IFP-SD-02 SAMPLE NO.: 111823 DEPTH: 0.0-0.5 ft.

Particle Diameter (mm)	0.06590	0.04747	0.03463	0.02256	0.01321	0.00944	0.00662	0.00471	0.00331	0.00142
Percent Finer	41.9	37.0	27.3	17.5	12.7	9.7	7.8	5.8	4.9	4.9

LOCATION: IFP-SS-05 SAMPLE NO.: 111826 DEPTH: 0.0-0.5 ft.

Particle Diameter (mm)	0.06493	0.04631	0.03302	0.02169	0.01284	0.00921	0.00646	0.00463	0.00327	0.00140
Percent Finer	38.4	36.8	34.3	25.3	18.8	14.7	12.3	9.8	7.4	6.5

LOCATION: 1994 SAMPLE NO.: 116309 DEPTH: 32.0-34.0 ft.

Particle Diameter (mm)	0.04858	0.03517	0.02275	0.01337	0.00961	0.00690	0.00488	0.00337	0.00145
Percent Finer	62.7	56.4	50.2	40.8	35.5	31.4	27.2	24.0	16.7

LOCATION: 1997 SAMPLE NO.: 116255 DEPTH: 36.0-38.0 ft.

Particle Diameter (mm)	0.06200	0.04484	0.03239	0.02133	0.01283	0.00917	0.00653	0.00465	0.00326	0.00132
Percent Finer	22.4	19.9	17.4	12.4	6.6	5.0	4.1	3.3	3.3	1.7

TABLE E-17D
(Continued)

LOCATION: 1998 SAMPLE NO.: 112040 DEPTH: 0.0-2.0 ft.

Particle Diameter (mm)	0.06210	0.04537	0.03246	0.02099	0.01243	0.00891	0.00634	0.00446	0.00314	0.00131
Percent Finer	40.1	30.6	26.7	20.1	11.5	7.6	4.8	2.9	1.9	0.0

LOCATION: 1998 SAMPLE NO.: 112063 DEPTH: 14.0-16.0 ft.

Particle Diameter (mm)	0.06347	0.04629	0.03358	0.02203	0.01294	0.00922	0.00654	0.00459	0.00322	0.00135
Percent Finer	28.7	22.8	17.6	9.8	5.9	3.9	3.3	2.6	2.0	0.7

E-17-6

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TABLE E 18

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TABLE E-18A
INACTIVE FLYASH PILE
CIS EM 31 GEOPHYSICAL MEASUREMENTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

North Coordinate	East Coordinate	MMHOS/M (Unit)	
		Horizontal Result	Vertical Result
478118.01	1378951.78	200.00	240.00
478068.03	1378950.41	235.00	255.00
478116.64	1379001.75	340.00	420.00
478066.66	1379000.38	260.00	300.00
477986.69	1378998.19	420.00	570.00
477966.69	1378997.64	540.00	500.00
477968.07	1378947.67	210.00	265.00
477941.70	1378996.95	480.00	570.00
477916.71	1378996.28	380.00	480.00
478040.67	1378999.67	310.00	240.00
478016.68	1378999.02	380.00	440.00
477976.69	1378997.92	470.00	450.00
477941.02	1379021.95	340.00	330.00
477916.03	1379021.28	300.00	360.00
477891.04	1379020.59	285.00	310.00
478115.27	1379051.73	410.00	390.00
478095.28	1379051.19	300.00	230.00
478085.28	1379050.91	220.00	430.00
478075.29	1379050.64	260.00	200.00
478065.29	1379050.36	260.00	280.00
478113.90	1379101.72	31.00	49.00
478063.92	1379100.34	36.00	57.00
478013.94	1379098.98	23.00	42.00
478014.21	1379088.98	44.00	110.00
477963.96	1379097.61	50.00	84.00
477913.98	1379096.25	16.50	120.00
477862.63	1379144.86	28.50	35.00
477861.26	1379194.84	25.00	25.50
477809.91	1379243.45	28.00	30.00
477823.54	1379293.84	30.00	-100.00
477808.54	1379293.44	15.00	-100.00
477669.54	1378889.48	4.80	6.60
477668.18	1378939.47	7.00	9.50
477668.18	1378939.47	7.00	9.50
477666.81	1378989.44	8.90	12.00

TABLE E-18B
INACTIVE FLYASH PILE
CIS EM 34 GEOPHYSICAL MEASUREMENTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

North Coordinate	East Coordinate	MMHOS/M (Unit)	
		Horizontal Result	Vertical Result
478118.01	1378951.78	110.00	-100.00
478116.64	1379001.75	260.00	-100.00
478115.27	1379051.73	170.00	-100.00
478113.90	1379101.72	50.00	53.00
478063.92	1379100.34	34.00	25.00
478065.29	1379050.36	175.00	-100.00
478066.66	1379000.38	180.00	85.00
478068.03	1378950.41	150.00	-100.00
478018.05	1378949.05	120.00	50.00
478016.68	1378999.02	300.00	-100.00
478015.31	1379049.00	145.00	-100.00
478013.94	1379098.98	35.00	66.00
477963.96	1379097.61	45.00	94.00
477965.33	1379047.63	235.00	-100.00
477966.69	1378997.64	280.00	-100.00
477916.71	1378996.28	210.00	-100.00
477913.98	1379096.25	130.00	-100.00
477864.00	1379094.88	215.00	-100.00
477415.53	1379032.58	8.50	9.00
477418.27	1378932.63	11.00	10.50
477421.00	1378832.66	13.00	-100.00
477520.97	1378835.39	6.00	-100.00
477518.23	1378935.36	8.00	11.50
477515.50	1379035.31	20.00	4.50
477615.46	1379038.05	10.00	10.50
477618.19	1378938.09	9.50	6.50
478231.00	1379082.00	20.00	9.00
476995.00	1379083.00	10.00	7.50
477109.00	1378870.00	9.00	7.00
477249.00	1378704.00	10.00	9.50
477453.00	1378680.00	12.50	9.00
477654.00	1378685.00	10.00	10.00
477790.00	1378702.00	10.00	8.50
477932.00	1378709.00	10.50	7.50
478074.00	1378626.00	8.50	7.50
478167.00	1378517.00	7.00	8.00
478200.00	1378342.00	12.50	8.00
478201.00	1378189.00	10.00	7.00

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FIGURE E-18A
CIS GEOPHYSICAL ANALYSIS
EM 31 HORIZONTAL CONTOUR MAP
(CONTOUR INTERVALS = 10 AND 100 MMHOS/M)

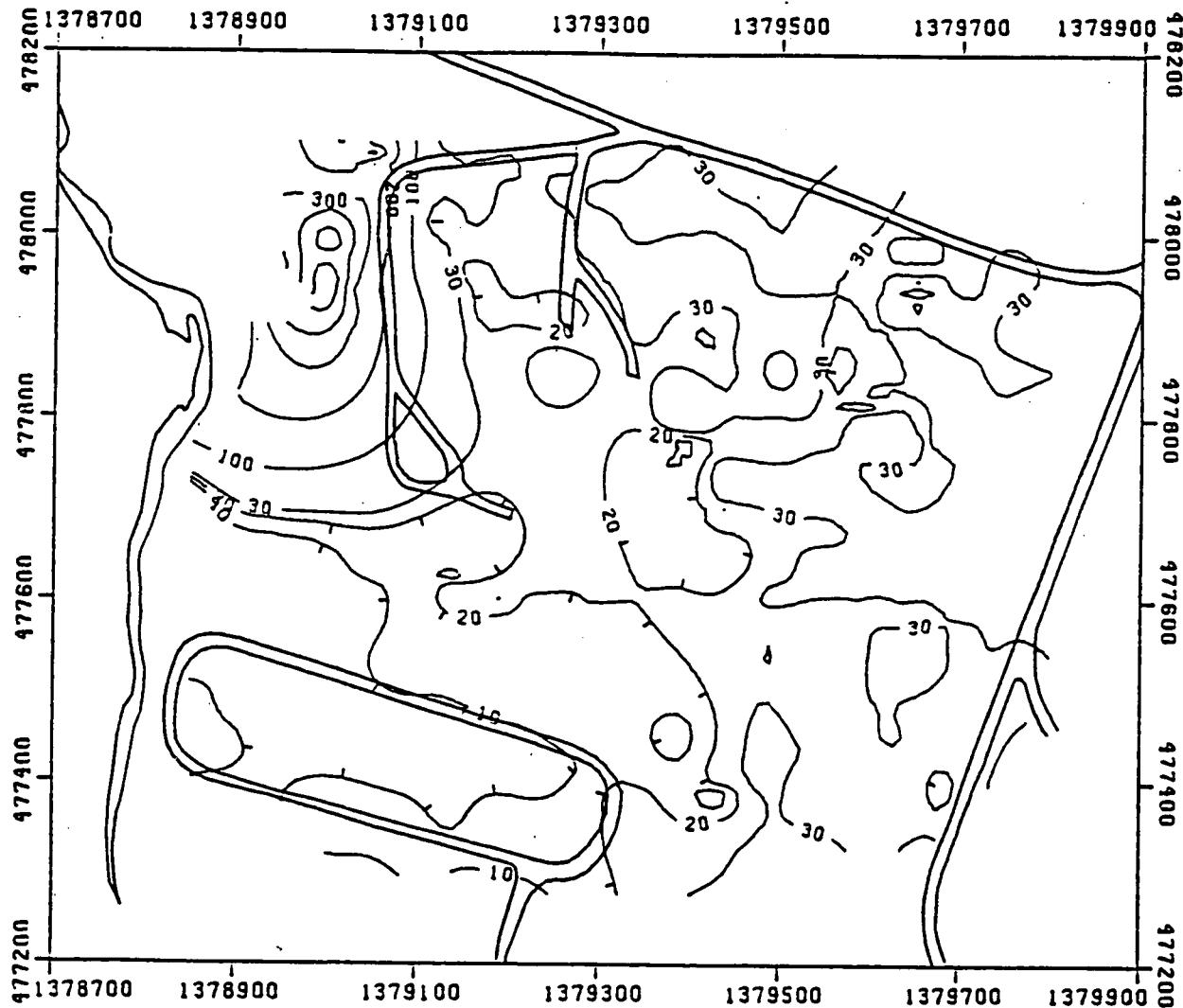
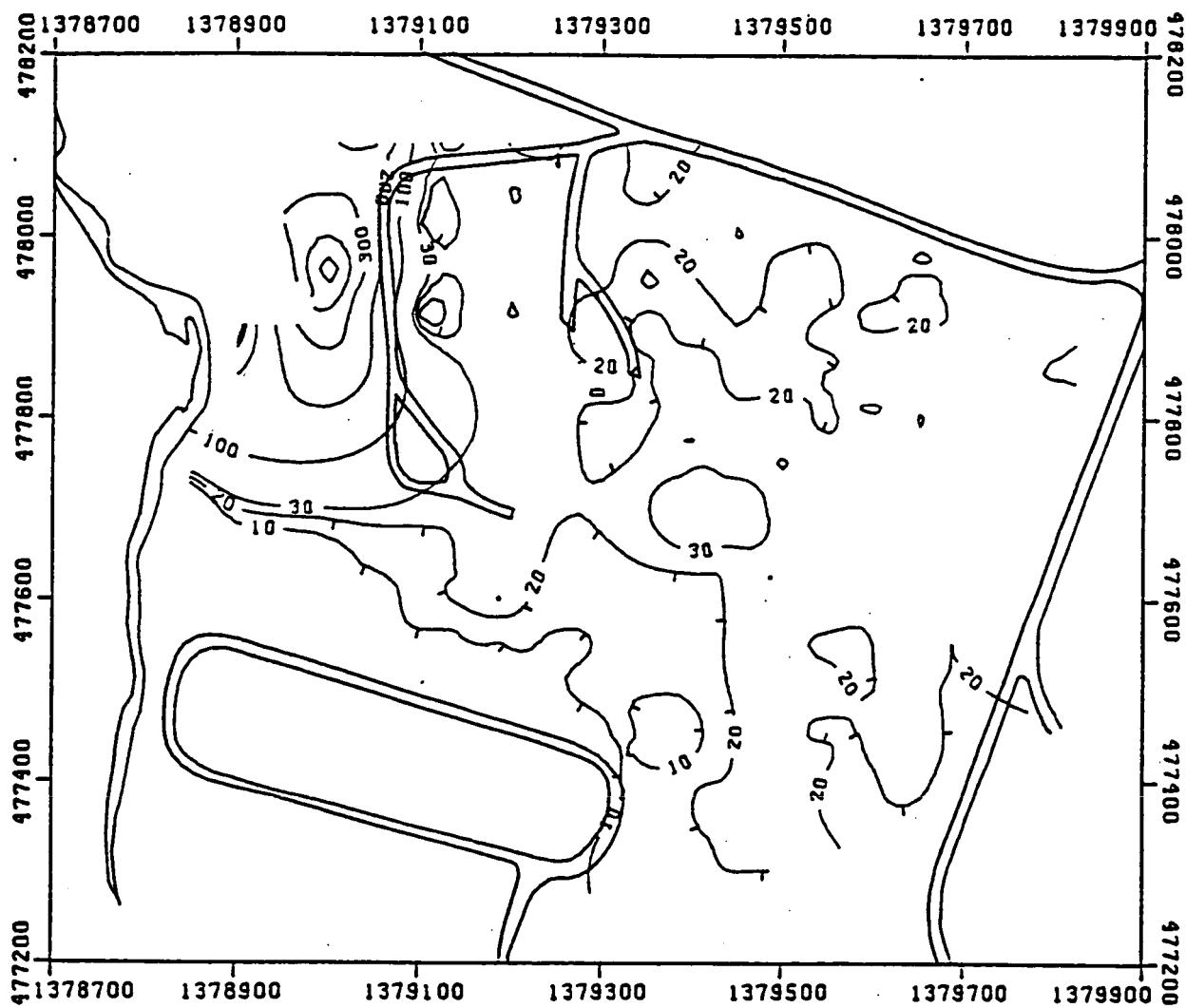


FIGURE E-18B
CIS GEOPHYSICAL ANALYSIS
EM 31 VERTICAL CONTOUR MAP
(CONTOUR INTERVALS = 10 AND 100 MMHOS/M)



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FIGURE E-18C

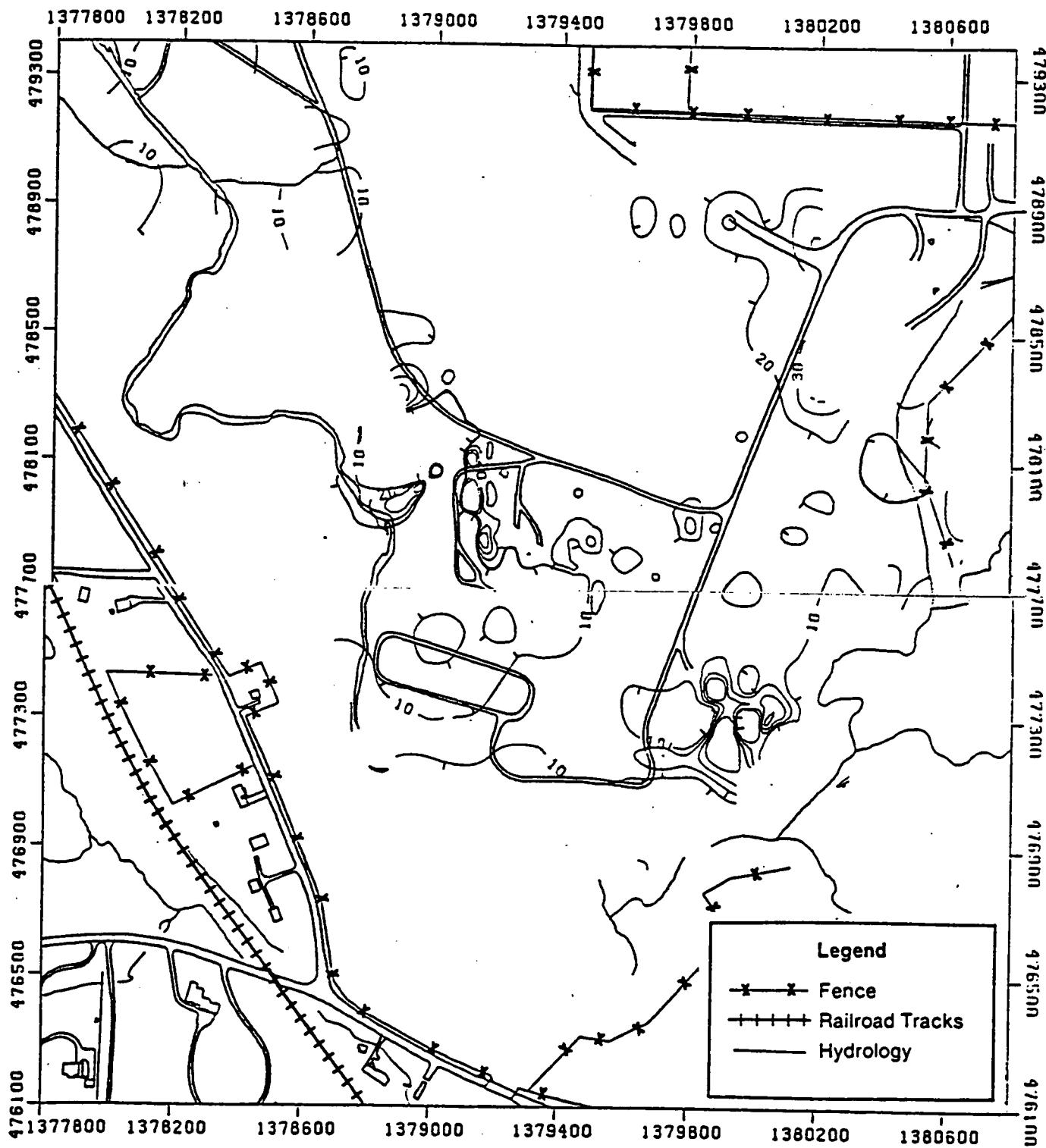
CIS GEOPHYSICAL ANALYSIS
EM 34-3 HORIZONTAL CONTOUR MAP
(CONTOUR INTERVALS = 10 AND 100 MMHOS/M)

FIGURE E-18D
CIS GEOPHYSICAL ANALYSIS
EM 34-3 VERTICAL CONTOUR MAP
(CONTOUR INTERVALS = 10 AND 100 MMHOS/M)

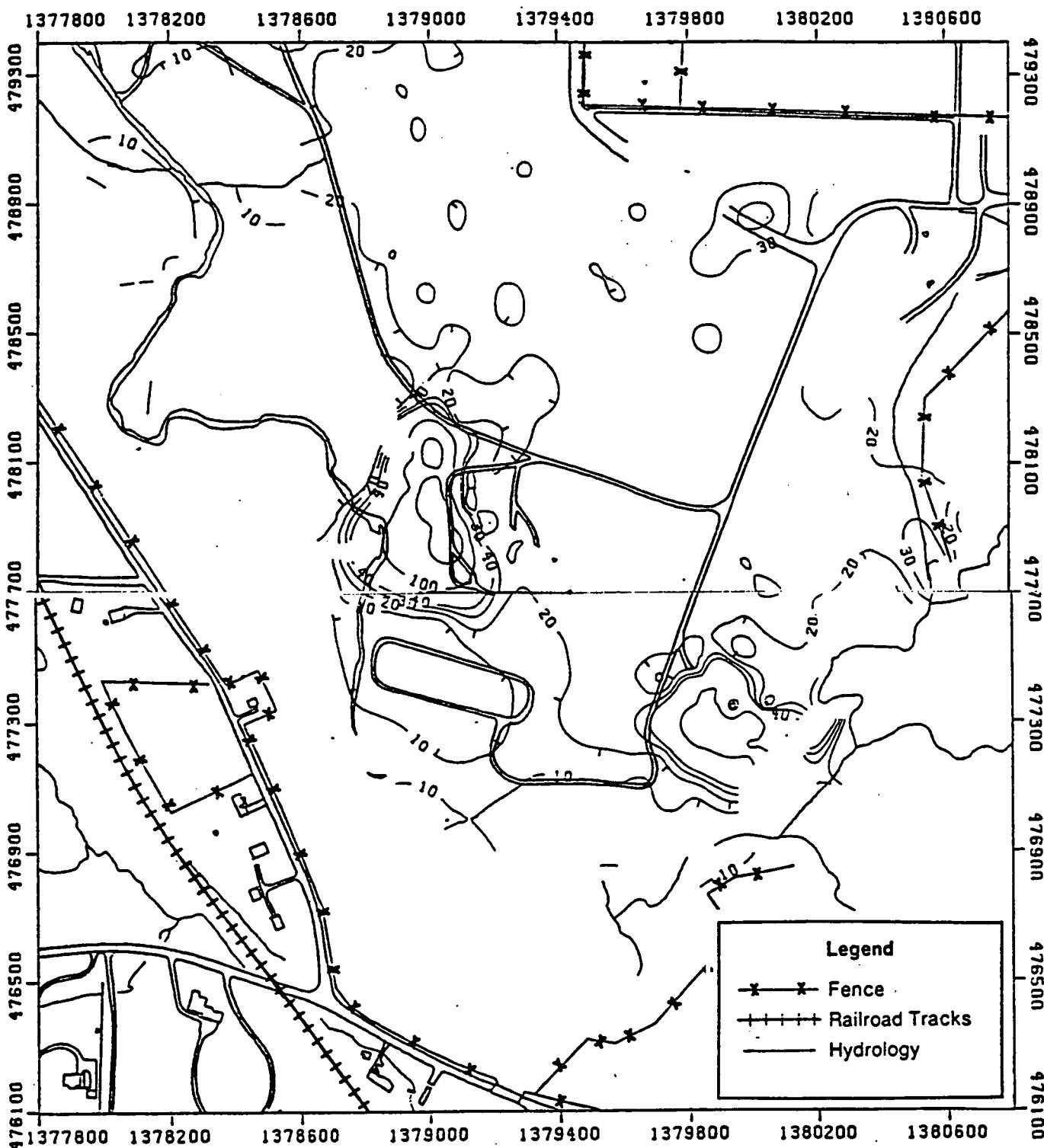


TABLE E-19

FERNALD RI/FS

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 602 3.2					PROJECT NAME: FMPC RI/FS				
BORING NUMBER: 1016					COORDINATES: NORTH 477,617.13 EAST 1,379,149.06				
GROUND ELEVATION: N/A					GWL: Depth N/A	Date/Time N/A	DATE STARTED: 10/15/87		
ENGINEER/GEOLOGIST: WILL KEGLEY					Depth N/A	Date/Time N/A	DATE COMPLETED: 10/16/87		
DRILLING METHODS: CABLE-TOOL					PAGE 1 OF 2				
D E P T H	S A M P L E	D T M E E	B L W S S O	R E C O V L E E R Y		S U Y S M C B S O L	T S F	REMARKS	
0.0 1.5	007232 10/15/87 1445	2 2 5	2 2 16	MEDIUM STIFF, BLACK (2.5Y 2/), SILT, SOME SAND, FLYASH, DRY.		ML	0.1	Hnu=0 $\alpha =0$ $\delta\Gamma =40-80$	ppm cpm cpm
3.0	007233 10/15/87 1500	4 4 3	4 4 14	LOOSE, DARK YELLOWISH BROWN (10YR 4/4), SILTY SAND, DRY.		SM	N/A	Hnu=0 $\alpha =0$ $\delta\Gamma =40-80$	ppm cpm cpm
4.5	007234 10/15/87 1510	4 5 4	5 5 13	LOOSE, BROWNISH YELLOW (10YR 6/8), SAND, SOME SILT, TRACE CLAY, DRY.		SM	N/A	Hnu=0 $\alpha =0$ $\delta\Gamma =40-80$	ppm cpm cpm
6.0	007235 10/15/87 1520	5 7 12	5 7 14	MEDIUM DENSE, YELLOWISH BROWN (10YR 5/6), GRAVELLY SAND, TRACE SILT, DRY.		SW	N/A	Hnu=0 $\alpha =0$ $\delta\Gamma =40-80$	ppm cpm cpm
7.5	007236 10/15/87 1525	15 24 16	15 24 14	DENSE, YELLOWISH BROWN (10YR 5/6), GRAVELLY SAND, DRY.		SW	N/A	Hnu=0 $\alpha =0$ $\delta\Gamma =160$	ppm cpm cpm
9.0	007237 10/15/87 1530	13 85 42	13 85 42	VERY DENSE, LIGHT YELLOWISH BROWN (10YR 6/4), GRAVELLY SAND, TRACE CLAY, DRY.		SW	N/A	Hnu=0 $\alpha =0$ $\delta\Gamma =40-80$	ppm cpm cpm
10.5	007223 007238 10/15/87 1700	15 23 24	15 23 12	DENSE, DARK YELLOWISH BROWN (10YR 4/4), GRAVELLY SAND, DRY.		SW	N/A	Hnu=0 $\alpha =0$ $\delta\Gamma =40-80$	ppm cpm cpm
12.0	007239 10/15/87 1720	15 16 18	15 16 10	DENSE, REDDISH YELLOW (7.5YR 7/6), GRAVELLY SAND, DRY.		SW	N/A	Hnu=0 $\alpha =0$ $\delta\Gamma =40-80$	ppm cpm cpm
13.5	007240 10/15/87 1735	9 12 26	9 12 8	DENSE, REDDISH YELLOW (7.5YR 6/6), GRAVELLY SAND, DRY.		SW	0.1	Hnu=0 $\alpha =0$ $\delta\Gamma =40-80$	ppm cpm cpm
15.0	007241 10/15/87 1750	8 10 13	8 10 10	MEDIUM DENSE, LIGHT BROWN (7.5YR 6/4), SAND, DRY.		SP	0.1	Hnu=0 $\alpha =0$ $\delta\Gamma =40-80$	ppm cpm cpm
16.5	007242 10/16/87 0925	2 6 10	2 6 12	MEDIUM DENSE, DARK YELLOWISH BROWN (10YR 4/4), SAND, TRACE GRAVEL, WET.		SP	N/A	Hnu=0 $\alpha =0$ $\delta\Gamma =40-80$	ppm cpm cpm
18.0	007243 10/16/87 1015	4 13 14	4 13 14	MEDIUM DENSE, STRONG BROWN (7.5YR 5/6), SAND, TRACE GRAVEL, WET.		SP	N/A	Hnu=0 $\alpha =0$ $\delta\Gamma =40-80$	ppm cpm cpm
19.5	007244 10/16/87 1040	3 4 7	3 4 17	MEDIUM DENSE, DARK YELLOWISH BROWN (10YR 4/4), SAND, WET.		SP	N/A	Hnu=0 $\alpha =0$ $\delta\Gamma =40-80$	ppm cpm cpm

FERNALD RI/FS

VISUAL CLASSIFICATION OF SOILS

IFAP

PROJECT NUMBER: 602 3.2				PROJECT NAME: FMPC RI/FS							
BORING NUMBER: 1016				COORDINATES: NORTH 477,617.13 EAST 1,379,149.06				DATE: 10/15/87			
GROUND ELEVATION: N/A				GWL: Depth N/A Date/Time N/A				DATE STARTED: 10/15/87			
ENGINEER/GEOLOGIST: WILL KEGLEY				Depth N/A Date/Time N/A				DATE COMPLETED: 10/16/87			
DRILLING METHODS: CABLE-TOOL								PAGE 2 OF 2			
D	S	B	R					S	U	T	REMARKS
E	A	D	T	L	S	E	I	Y	S	M	
P	M	A	I	O	A	C	N		C	B	
T	P	T	H	W	M	O	C		S	O	
H	L	E	E	S	P	V	H		L	L	
E				O	L	E	E				
				N	E	R	S				
21.0	007350	2		MEDIUM DENSE, DARK YELLOWISH BROWN (10YR 4/4), SAND, TRACE GRAVEL, WET.				SP	N/A	$H_{ML}=0$ $\alpha =0$ $BT =40-80$	ppm cpm cpm
	10/16/87	7									
22.5	007351	4		MEDIUM DENSE, DARK YELLOWISH BROWN (10YR 4/4), SAND, TRACE GRAVEL, WET.				SP	N/A	$H_{ML}=0$ $\alpha =0$ $BT =40-80$	ppm cpm cpm
	10/16/87	9									
21.0 1100 13 18											
22.5 10											
BOTTOM OF BORING 22.5											
NOTES: MONITORING WELL INSTALLED.											

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Page 1

PROJECT NUMBER: 602 3.2					PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION						
BORING NUMBER: 1047					COORDINATES: NORTH 478258.45 EAST 1379062.49			DATE: 15-OCT-87			
GROUND ELEVATION: 568.7					GWL: Depth		Date/Time	DATE STARTED: 15-OCT-87			
ENGINEER/GEOLOGIST: LOWELL WILLE					Depth		Date/Time	DATE COMPLETE: 17-OCT-87			
DRILLING METHOD: CABLE-TOOL DRILLING											
D E P T H	S A M P L E	D T M E E	B L O W S O N	S A M W M O P R E V E R Y	R E C O V E R Y	I N C H E S	U S Y S M C B S O L	T S F	REMARKS		
1.5	007295 10/15/87 17:30	3 5 10	13	SOFT BLACK (7 1/2YR, 3/6) ORGANIC RICH SILT, SOME SAND AND CLAY - MOIST. STIFF BROWN (10YR, 5/5) SILTY CLAY, TRACE SAND - DRY. HARD BROWN (10YR, 5/6) CLAY - SOME SILT, TRACE FINE SAND - DRY.					OL ML CL	0.5 2.0 <5	PID=0 ppm $\alpha=15$ ppm $BT=45$ cpm
1.5 3.0	007296 10/15/87 17:35	6 13 20	12	HARD BROWN (10YR, 5/6) MOTTLED GRAY CLAY, SOME SILT - DRY.					CL	<5	PID=0 ppm $\alpha=2$ ppm $BT=45$ cpm
3.0 4.5	007297 10/15/87 17:40	8 16 21	11	HARD BROWN (10YR, 4/8) MOTTLED GRAY CLAY, SOME SILT, TRACE SAND AND GRAVEL - DRY. HARD GRAY (7 1/2YR) SILTY CLAY, TRACE GRAVEL, SOME SAND - DRY.					CL CL	<5 <5	PID=0 ppm $\alpha=2$ ppm $BT=45$ cpm
4.5 6.0	007298 10/15/87 17:45	23 27 31	16	HARD BROWN (10YR, 7/4) MOTTLED GRAY CLAY, TRACE SAND AND GRAVEL, SOME SILT - DRY.					CL	<5	PID=0 ppm $\alpha=2$ ppm $BT=45$ cpm
6.0 7.5	007299 10/16/87 10:45	6 11 14	13	HARD BROWN (10YR, 6/4) CLAY, SOME SILT AND FINE SAND, TRACE MED. TO COARSE SAND - DRY.					CL	4.0	PID=0 ppm $\alpha=2$ ppm $BT=45$ cpm
7.5 9.0	007300 10/16/87 10:50	15 18 21	12	HARD BROWN (10YR, 6/4) GRAVELLY CLAY, SOME SILT AND SAND, TRACE PEBBLES - DRY					CL	N/A	PID=0 ppm $\alpha=2$ ppm $BT=45$ cpm
9.0 10.5	007301 10/16/87 11:30	2 4 5	11	SOFT, GRAY (7.5YR, 5/0) SANDY CLAY, SOME SILT AND GRAVEL, TRACE PEBBLES - DRY.					CL	.50	PID=0 ppm $\alpha=2$ ppm $BT=45$ cpm
10.5 12.0	007302 10/16/87 11:40	8 10 13	14	SOFT GRAY (7.5YR, 5/0) CLAY, SOME SAND AND SILT, TRACE FINE GRAVEL - MOIST.					CL	0.5	PID=0 ppm $\alpha=2$ ppm $BT=45$ cpm
14.0 15.5	007304 10/16/87 16:10	5 15 37	14	STIFF GREY (7.5YR, 6/0) SANDY CLAY SOME SILT AND GRAVEL, TRACE PEBBLES - DRY.					CL	<5.	PID=0 ppm $\alpha=2$ ppm $BT=45$ cpm
17.0 18.5	007306 10/16/87 17:20	11 41 48	16	HARD GRAY 7 1/2YR 5/1 SANDY CLAY, SOME SILT AND GRAVEL, TRACE PEBBLES - DRY. DENSE BROWN 10YR 5/6 FINE SAND - SOME SILT, CLAY AND MEDIUM SAND - DRY. DENSE BROWN 10YR 7/8 SAND, SOME GRAVEL, SILT, AND CLAY - DRY					CL SW SP	<5 N/A N/A	PID=0 ppm $\alpha=2$ ppm $BT=60$ cpm
18.5 20.0	007307 10/16/87 17:45	14 40 50	18	DENSE BROWN 10YR 7/8 SAND, SOME GRAVEL, SILT, AND CLAY, TRACE PEBBLES - DRY					SP	N/A	PID=0 ppm $\alpha=2$ ppm $BT=60$ cpm
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 602 3.7					PROJECT NAME: CRUZ PHASE I FIELD INVESTIGATION				
BORING NUMBER: 1708					COORDINATES: NORTH 477710.64 EAST 1379166.88			DATE: 14-JUN-91	
GROUND ELEVATION: 570.9					GWL: Depth	Date/Time		DATE STARTED: 14-JUN-91	
ENGINEER/GEOLOGIST: J. LEAR					Depth	Date/Time		DATE COMPLETE: 17-JUN-91	
DRILLING METHOD: AUGER									
DEPTH	SAMPLE	TIME	BLOW COUNT	RECOVERY	INCHES			S Y S M T S F	REMARKS
	E E	E E	O N	R E	I N C H E S			S Y S M T S F	REMARKS
1.5	067091 06/14/91 15:00	25 27 19	18	V. HARD BLACK, (2.5Y, 2/) ASPHALT, TRACE GRAVEL, DRY, .25-V. HARD BROWN TO YELLOWISH BROWN (10YR, 5/3 TO 10YR, 4/6) SILTY CLAY, SOME GRAVEL LOW PLASTICITY, DRY.		CL	>4.0	PID=0 ppm $\alpha=50-100$ ppm $\beta\Gamma=0$ cpm	
1.5	067092 06/14/91 15:05	14 14 14	18	V. HARD BLACK, (2.5Y, 2/) ASPHALT, TRACE GRAVEL, DRY, .25-V. HARD BROWN TO YELLOWISH BROWN, (10YR, 5/3 TO 10YR, 4/6) SILTY CLAY, SOME GRAVEL LOW PLASTICITY, DRY, 1.75-DENSE, VERY DARK GRAY (2.5Y, 3/) SILT, TRACE SAND & GRAVEL, DRY.		CL ML	>4.0	PID=0 ppm $\alpha=50-100$ ppm $\beta\Gamma=0$ cpm	
3.0	067093 06/14/91 15:10	14 14 18	18	DENSE, VERY DARK GRAY (2.5Y, 3/) SILT, TRACE SAND & GRAVEL, DRY, 4.0-DENSE, BLACK (2.5Y, 2/) SILT, TRACE SAND TRACE GRAVEL, SL. MOIST.		ML ML	N/A	PID=0 ppm $\alpha=50-100$ ppm $\beta\Gamma=0$ cpm	
4.5	067094 06/14/91 15:15	6 6 5	18	4.0-DENSE, BLACK, (2.5Y, 2/) SILT, TRACE SAND TRACE GRAVEL, SL. MOIST, MED DENSE, 5.25-MED DENSE, VERY DARK GRAY (2.5Y, 3/) SILT, SOME SAND, SOME GRAVEL, DRY.		ML ML	N/A	PID=0 ppm $\alpha=50-100$ ppm $\beta\Gamma=0$ cpm	
6.0	067095 06/14/91 15:50	2 2 2	10	VERY LOOSE, BLACK (2.5Y, 2/) SILT, TRACE SAND AND GRAVEL, SL. MOIST.		ML	N/A	PID=0 ppm $\alpha=50-100$ ppm $\beta\Gamma=0$ cpm	
7.5	067096 06/14/91 15:55	2 2 2	16	VERY LOOSE, BLACK (2.5Y, 2/) SILT, TRACE SAND AND GRAVEL, SL. MOIST.		ML	N/A	PID=0 ppm $\alpha=50-100$ ppm $\beta\Gamma=0$ cpm	
12.0	067099 06/16/91 09:00	3 3 3	13	VERY LOOSE, BLACK, (2.5Y, 2/) SILT, TRACE SAND AND GRAVEL, SL. MOIST, SOME SAND SOME GRAVEL.		ML	N/A	PID=0 ppm $\alpha=50-100$ ppm $\beta\Gamma=0$ cpm	
13.5	067100 06/16/91 09:05	3 3 4	18	VERY LOOSE, BLACK, (2.5Y, 2/) SILT, TRACE SAND AND GRAVEL, SL. MOIST, SOME SAND SOME GRAVEL.		ML	N/A	PID=0 ppm $\alpha=50-100$ ppm $\beta\Gamma=0$ cpm	
15.0	067101 06/16/91 09:10	3 3 4	18	VERY LOOSE, BLACK, (2.5Y, 2/) SILT, TRACE SAND AND GRAVEL, SL. MOIST, SOME SAND SOME GRAVEL.		ML	N/A	PID=0 ppm $\alpha=50-100$ ppm $\beta\Gamma=0$ cpm	
16.5	067102 06/16/91 09:15	5 2 3	18	VERY LOOSE, BLACK, (2.5Y, 2/) SILT, TRACE SAND AND GRAVEL, SL. MOIST, SOME SAND SOME GRAVEL.		ML	N/A	PID=0 ppm $\alpha=50-100$ ppm $\beta\Gamma=0$ cpm	
18.0	067103 06/16/91 10:15	5 5 5	0	NO RECOVERY		N/A	N/A	PID=0 ppm $\alpha=50-100$ ppm $\beta\Gamma=0$ cpm	
19.5	067104 06/16/91 10:20	5 3 4	18	LOOSE, BLACK (2.5Y, 2/) SILT, TRACE SAND TRACE GRAVEL, SL. MOIST, WOOD CHIP 2".		ML	N/A	PID=0 ppm $\alpha=50-100$ ppm $\beta\Gamma=0$ cpm	

NOTES:

SAA = Same as Above
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PROJECT NUMBER: 602 3.7					PROJECT NAME: CRUZ PHASE I FIELD INVESTIGATION				
BORING NUMBER: 1708			COORDINATES: NORTH 477710.64 EAST 1379166.88			DATE: 14-JUN-91			
GROUND ELEVATION: 570.9			GWL: Depth Date/Time			DATE STARTED: 14-JUN-91			
ENGINEER/GEOLOGIST: J. LEAR			Depth Date/Time			DATE COMPLETE: 17-JUN-91			
DRILLING METHOD: AUGER									
D E P T H	S A M P L E	D A T E T I E E	B S L O W S A M P L E O N	R E C O V E R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS
21.0	067105 06/16/91 10:25	2 2 3		18	LOOSE, BLACK (2.5Y, 2/) SILT, TRACE SAND TRACE GRAVEL, SL. MOIST, WOOD CHIP 2", 21.5'-LOOSE, BLACK (2.5Y, 2/) SANDY SILT, TRACE GRAVEL SL. MOIST, 22.0'-LOOSE, BLACK (2.5Y, 2/) SILT, TRACE SAND TRACE GRAVEL, MOIST.		ML ML ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
22.5	067106 06/16/91 10:30	3 3 3		18	LOOSE, BLACK (2.5Y, 2/) SILT, SOME GRAVEL, TRACE SAND, SL. MOIST, 23.8'-LOOSE, BLACK TO YELLOWISH BROWN (2.5Y, 2/) TO (10YR, 5/4) SANDY SILT, TRACE GRAVEL, SL. MOIST.		ML ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
24.0	067107 06/16/91 13:30	5 5 4		18	LOOSE, BLACK (2.5Y, 2/) SILT, SOME POORLY SORTED SAND, SL. MOIST.		ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
25.5	067108 06/16/91 13:35	3 3 2		18	LOOSE, BLACK (2.5Y, 2/) SILT, SOME POORLY SORTED SAND, SL. MOIST.		ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
27.0	067109 06/16/91 13:40	2 2 4		18	LOOSE, BLACK (2.5Y, 2/) SILT, SOME POORLY SORTED SAND, SL. MOIST, 28.2'-LOOSE, DARK GRAYISH BROWN (10YR, 4/) POORLY SORTED SAND, TRACE GRAVEL, SL. MOIST.		ML SP	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
28.5	067110 06/16/91 13:45	8 8 6		16	28.2'-LOOSE DARK GRAYISH BROWN (10YR, 4/) POORLY SORTED SAND, TRACE GRAVEL, SL. MOIST, MED DENSE, 29.0-MEDIUM DENSE, VERY DARK GRAY (2.5Y, 3/) SANDY SILT, MOIST, 29.5-MEDIUM DENSE (2.5Y, 4/2) OLIVE BROWN, SILT SOME SAND SOME CLAY, SLIGHT PLASTICITY,		SP ML ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
30.0	067111 06/16/91 14:15	8 11 13		18	MEDIUM DENSE, BLACK (5Y/25/1) SILT SOME LIGHT OLIVE BROWN (2.5Y, 5/6) SAND (FINE) MOIST. 31.0-MEDIUM DENSE, DARK OLIVE GRAY TO BLACK (5Y, 3/2 TO 5Y/2.5/2) SILT TRACE SAND, MOIST.		ML ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
31.5	067112 06/16/91 14:20	8 14 20		18	DENSE, DARK OLIVE GRAY, (5Y/3/2) SILT SOME CLAY, LOW PLASTICITY, MOIST.		ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
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PROJECT NUMBER: 602 3.7						PROJECT NAME: CRU2 PHASE I FIELD INVESTIGATION													
BORING NUMBER: 1709						COORDINATES: NORTH 477814.23 EAST 1378969.43													
GROUND ELEVATION: 571						GWL: Depth Date/Time													
ENGINEER/GEOLOGIST: J. LEAR						Depth Date/Time													
DRILLING METHOD: AUGER																			
D E P T H	S A M P L E	D A T E E E	B L O W S P L E O N	R E C O V E R Y	I N C H E S			S Y U S M C B S O L	T S F	REMARKS									
1.5	067059 06/04/91 15:15	4 10 15	14	MEDIUM DENSE, DARK BROWN (10YR, 3/3) CLAYEY SILT, TRACE SAND, SOME ORGANICS, SL. MOIST. -5' MEDIUM DENSE, YELLOWISH BROWN, (10YR, 5/3) CLAYEY SILT, TRACE SAND, TRACE GRAVEL, DRY.				ML ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm									
1.5 3.0	067060 06/04/91 15:25	14 15 18	0	NO RECOVERY				N/A	N/A	PID=0 ppm α =50-100 ppm									
3.0 4.5	067061 06/04/91 15:25	13 16 18	12	V. STIFF YELLOWISH BROWN TO DARK BROWN (10YR, 5/8 TO 3/3) SILTY CLAY, SOME GRAVEL, TRACE SAND, LOW PLASTICITY, DRY. *ONE BRICK COBBLE WAS RECOVERED.				CL	3.5	PID=0 ppm α =50-100 ppm BT=0 cpm									
4.5 6.0	067062 06/04/91 15:35	14 25 17	4	DENSE, BLACK, (2.5Y, 2/) SILT, TRACE GRAVEL, DRY				ML	N/A	PID=0 ppm α =110 ppm BT=0 cpm									
6.0 7.5	067063 06/06/91 09:00	3 13 7	8	MEDIUM DENSE, BLACK (2.5Y, 2/) SILT, TRACE GRAVEL, DRY.				ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm									
7.5 9.0	067064 06/06/91 09:05	7 7 7	18	MEDIUM DENSE, VERY DARK GRAY (10YR, 3/) SILT, SOME GRAVEL, DRY. -8.25'- MEDIUM DENSE, BLACK (2.5Y, 2/) SILTY, TRACE GRAVEL, DRY.				ML ML	N/A	PID=0 ppm α =80-100 ppm BT=0 cpm									
9.0 10.5	067066 06/06/91 09:10	4 6 6	18	MEDIUM DENSE, VERY DARK GRAY (10YR, 3/) SILT, SOME GRAVEL, DRY. 8.25' MEDIUM DENSE, BLACK (2.5Y, 2/) SILT, TRACE GRAVEL, DRY.				ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm									
9.0 10.5	067065 06/06/91 00:00	4 6 6	18	MEDIUM DENSE, VERY DARK GRAY (10YR, 3/) SILT, SOME GRAVEL, DRY. -8.25'- MEDIUM DENSE, BLACK (2.5Y, 2/) SILTY, TRACE GRAVEL, DRY.				ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm									
10.5 12.0	067067 06/06/91 10:00	1 2 3	18	MEDIUM DENSE, VERY DARK GRAY (10YR, 3/) SILT, SOME GRAVEL, DRY. -8.25'- MEDIUM DENSE, BLACK (2.5Y, 2/) SILT, TRACE GRAVEL, TRACE SAND, SLIGHTLY MOIST.				ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm									
12.0 13.5	067070 06/06/91 10:05	2 3 3	18	LOOSE, BLACK (2.5Y, 2/) SILT, SOME GRAVEL IGNETS, TRACE SAND, SL. MOIST.				ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm									
13.5 15.0	067071 06/06/91 10:10	2 3 3	18	LOOSE, BLACK (2.5Y, 2/) SILT, SOME GRAVEL IGNETS, TRACE SAND, SL. MOIST.				ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm									
15.0 16.5	067072 06/06/91 10:15	4 3 5	18	LOOSE, BLACK (2.5Y, 2/) SILT, SOME GRAVEL IGNETS, TRACE SAND, SL. MOIST.				ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm									
16.5 18.0	067073 06/06/91 11:00	1 2 2	18	LOOSE, BLACK (2.5Y, 2/) SILT, SOME GRAVEL IGNETS, TRACE SAND, VERY LOOSE, SL. MOIST.				ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm									
NOTES:																			
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PROJECT NUMBER: 602 3.7					PROJECT NAME: CRU2 PHASE I FIELD INVESTIGATION					
BORING NUMBER: 1709					COORDINATES: NORTH 477814.23 EAST 1378969.43					
GROUND ELEVATION: 571					GWL: Depth	Date/Time		DATE STARTED: 04-JUN-91		
ENGINEER/GEOLOGIST: J. LEAR					Depth	Date/Time		DATE COMPLETE: 12-JUN-91		
DRILLING METHOD: AUGER										
D E P T H	S A M P L E	D A T E E E	T I M E E E	B L O W M O N	S A C S P L E R Y	R E C O V E R E Y	E I N C H E S	S U Y S M C B S O L	T S F	REMARKS
18.0	067074	2						ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
19.5	06/06/91 11:05	3								
19.5	067075	2						ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
21.0	06/06/91 11:05	3								
21.0	067076	3						ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
22.5	06/06/91 11:10	3								
22.5	067077	2						ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
24.0	06/11/91 13:30	3								
24.0	067078	2						ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
25.5	06/11/91 13:40	2								
25.5	067079	3						ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
27.0	06/11/91 13:45	3								
27.0	067080	3						ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
28.5	06/11/91 13:50	4						ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
28.5	067081	1								
30.0	06/11/91 15:00	2						ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
30.0	067082	1								
31.5	06/11/91 15:05	5						ML	N/A 1.2	PID=0 ppm α =100-150 ppm BT=0 cpm
31.5	067083	8								
33.0	06/11/91 15:10	12						ML	1.5	PID=0 ppm α =80-120 ppm BT=0 cpm
33.0	067083	19								
NOTES:										
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PROJECT NUMBER: 602 3.7					PROJECT NAME: CRU2 PHASE I FIELD INVESTIGATION				
BORING NUMBER: 1710					COORDINATES: NORTH 477931.49 EAST 1378993.33				
GROUND ELEVATION: 577.4					GWL: Depth	Date/Time		DATE STARTED: 31-MAY-91	
ENGINEER/GEOLOGIST: J. LEAR					Depth	Date/Time		DATE COMPLETE: 04-JUN-91	
DRILLING METHOD: AUGER									
DEPTH	SAMPLE	AD TIME	BLOWS	SALE	RECOVERY	INCHES		S U Y S M T S F	REMARKS
								S O L	
1.5	067026 05/31/91 13:30	4 10 12	18		MEDIUM DENSE, DARK BROWN (10YR, 3/3) CLAYEY SILT, SOME ORGANICS, SOME GRAVEL, LOW PLASTICITY, SL. MOIST. MEDIUM DENSE, BROWN (10YR, 4/3) CLAYEY SILT, TRACE GRAVEL, SL. MOIST.		ML ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
1.5 3.0	067027 05/31/91 13:40	8 9 10	18		MEDIUM DENSE, BLACK (2.5Y, 2/) SANDY SILT, TRACE GRAVEL, DRY.		ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
3.0 4.5	067028 05/31/91 13:50	7 10 10	18		MEDIUM DENSE, BLACK (2.5Y, 2/) SANDY SILT, TRACE GRAVEL, DRY.		ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
4.5 5.0	067029 05/31/91 14:00	7 8 8	18		MEDIUM DENSE, BLACK (2.5Y, 2/) SANDY SILT, TRACE GRAVEL, DRY. 5.5' MEDIUM DENSE, VERY DARK GRAY (2.5Y, 3/1) SANDY SILT, TRACE GRAVEL, DRY.		ML ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
6.0 7.5	067030 05/31/91 14:35	1 3 3	12		LOOSE, BLACK (2.5Y, 2/) SILT, SOME SAND, TRACE GRAVEL, DRY.		ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
7.5 9.0	067031 05/31/91 14:40	2 3 3	16		LOOSE, BLACK (2.5Y, 2/) SILT, SOME SAND, TRACE GRAVEL, DRY.		ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
9.0 10.5	067032 05/31/91 14:45	2 2 2	18		LOOSE, BLACK (2.5Y, 2/) SILT, SOME SAND, TRACE GRAVEL, DRY.		ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
10.5 12.0	067033 05/31/91 14:50	2 3 3	0		NO RECOVERY		N/A	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
12.0 13.5	067034 05/31/91 15:30	1 1 2	18		LOOSE, BLACK (2.5Y, 2/) SILT, SOME SAND, TRACE GRAVEL, SL. MOIST.		ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
13.5 15.0	067035 05/31/91 15:35	1 2 2	18		LOOSE, BLACK (2.5Y, 2/) SILT, SOME SAND, TRACE GRAVEL, SL. MOIST.		ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
15.0 16.5	067036 05/31/91 15:40	1 1 2	6		LOOSE, BLACK (2.5Y, 2/) SILT, SOME SAND, TRACE GRAVEL, SL. MOIST.		ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
16.5 18.0	067039 06/01/91 09:00	2 3	18		LOOSE, BLACK (2.5Y, 2/) SILT, TRACE SAND, DRY. 16.9' LOOSE, BLACK (2.5Y, 2/) SILT, SOME SAND, TRACE GRAVEL, DRY.		ML ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
18.0 19.5	067040 06/01/91 09:05	4 4 5	18		LOOSE, BLACK (2.5Y, 2/) SILT, TRACE SAND, DRY. 16.9' LOOSE, BLACK (2.5Y, 2/) SILT, SOME SAND, TRACE GRAVEL, DRY.		ML	N/A	PID=0 ppm α =50-100 ppm BT=0 cpm
NOTES:									
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PROJECT NUMBER: 602 3.7					PROJECT NAME: CRU2 PHASE I FIELD INVESTIGATION					
BORING NUMBER: 1710					COORDINATES: NORTH 477931.49 EAST 1378993.33					
GROUND ELEVATION: 577.4					GWL: Depth	Date/Time		DATE STARTED: 31-MAY-91		
ENGINEER/GEOLOGIST: J. LEAR					Depth	Date/Time		DATE COMPLETE: 04-JUN-91		
DRILLING METHOD: AUGER										
D E P T H	S A M P L E	D A T E E E	B L O W S O N	T I M E E E	R E C O V E R Y	S A M P L E	I N C H E S	S Y S M C B S O L	T S F	REMARKS
19.5 21.0	067041 06/01/91 09:15	4 18 50/3"	8		VERY DENSE, (2.5Y, 2/) BLACK, SILT, TRACE SAND, SOME GRAVEL IGNETS, DRY.			ML	N/A	PID=0 ppm α =50-100 ppm BI=0 cpm
21.0 22.5	067042 06/01/91 09:50	38 42 27	0		NO RECOVERY			N/A	N/A	PID=0 ppm α =50-100 ppm BI=0 cpm
22.5 23.0	067043 06/01/91 10:00	45	6		VERY DENSE, BLACK (2.5Y, 2/) SILT, SOME YELLOWISH RED, (5YR, 5/6) STONE IGNETS, TRACE SAND, DRY. 23.0' INPENETRABLE STRUCK, ATTEMPT TO AUGER THRU			ML	N/A	PID=0 ppm α =200-240 ppm BI=0-2 cpm
24.0 25.5	067044 06/01/91 13:20	40 18 32	3		DENSE, BLACK (2.5Y, 2/) SILT, CONCRETE RUBBLE COBBLES, TRACE SAND, TRACE GRAVELS, DRY.			ML	N/A	PID=0-4 ppm α =100-150 ppm BI=0 cpm
25.5 27.0	067045 06/01/91 13:45	32 30 18	8		DENSE, BLACK (2.5Y, 2/) SILT, SOME ORGANICS, SOME CONCRETE GRAVEL, TRACE SAND, SL. MOIST.			ML	N/A	PID=2 ppm α =100-400 ppm BI=0 cpm
27.0 28.5	067046 06/01/91 14:10	33 25 14	16		DENSE, DARK OLIVE GRAY (5Y, 3/2) GRAVELY SAND, TRACE SILT, WET. 27.5' DENSE, YELLOWISH BROWN (10YR, 5/4) CLAYEY SILT, SOME GRAVEL & COBBLES, MOIST.			GW ML	N/A	PID=0 ppm α =100-800 ppm BI=0-2 cpm
28.5 30.0	067047 06/01/91 15:15	20 25 28	14		SOFT, DARK OLIVE GRAY (5Y, 3/2) CLAY, TRACE SILT, MED PLAST, MOIST. VERY DENSE, YELLOWISH BROWN (10YR, 5/8) WELL SORTED COARSE SAND, TRACE GRAVEL, DRY.			CL SP	0.6	PID=<1.0 ppm α =40-180 ppm BI=0 cpm
30.0 31.5	067049 06/01/91 15:30	20 30 32	18		SOFT, DARK OLIVE GRAY (5Y, 3/2) CLAY, TRACE SILT, MED PLAST, MOIST. VERY DENSE, YELLOWISH BROWN (10YR, 5/8) WELL SORTED COARSE SAND, TRACE GRAVEL, DRY.			SP	N/A	PID=0 ppm α =50-180 ppm BI=0 cpm
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 602 3.7					PROJECT NAME: CRUZ PHASE I FIELD INVESTIGATION						
BORING NUMBER: 1711					COORDINATES: NORTH 478126.52 EAST 1378968.88			DATE: 23-MAY-91			
GROUND ELEVATION: 576.5					GWL: Depth	Date/Time	DATE STARTED: 23-MAY-91				
ENGINEER/GEOLOGIST: J. LEAR					Depth	Date/Time	DATE COMPLETE: 30-MAY-91				
DRILLING METHOD: AUGER											
D E P T H	S A M P L E	D A T E E E	B L O W S A M P L E O N	R E C O V E R Y	I N C H E S		S Y S M C B S O L	T S F	REMARKS		
1.5	067009 05/23/91 09:43	2 13 13	13	18	MEDIUM DENSE, (2.5Y, 2/) BLACK SILTY ASH SOME GRAVEL IGNETS, DRY, .75-VERY STIFF DARK GRAYISH BROWN, (2.5Y, 4/2) CLAYEY SILT TRACE GRAVEL, DRY.	ML ML	N/A 2.5	PID=0 ppm α =70-100 ppm BT=0 cpm			
1.5 3.0	067010 05/23/91 09:48	9 12 11	18		MEDIUM DENSE, BLACK (2.5Y, 2/) SILTY SAND SOME FINE GRAVEL, DRY.	SM	N/A	PID=0 ppm α =70-100 ppm BT=0 cpm			
3.0 4.5	067011 05/23/91 09:53	10 13 9	18		MEDIUM DENSE, BLACK (2.5Y, 2/) SILTY SAND SOME FINE GRAVEL, DRY.	SM	N/A	PID=0 ppm α =70-100 ppm BT=0 cpm			
4.5 6.0	067012 05/29/91 10:53	6 8 9	18		MEDIUM DENSE, BLACK (2.5Y, 2/) SILTY SAND SOME FINE GRAVEL, DRY.	SM	N/A	PID=0 ppm α =70-100 ppm BT=0 cpm			
6.0 7.5	067013 05/29/91 11:15	5 4 3	16		LOOSE, BLACK (2.5Y, 2/) SILT, SOME SAND, TRACE GRAVEL, DRY.	ML	N/A	PID=0 ppm α =70-100 ppm BT=0 cpm			
7.5 9.0	067014 05/29/91 11:20	4 5 5	18		LOOSE, BLACK (2.5Y, 2/) SILTY SAND TRACE FINE GRAVEL, DRY, 8.5-LOOSE, BLACK (2.5Y, 2/) SILT, SOME SAND, TRACE GRAVEL, DRY.	SM ML	N/A	PID=0 ppm α =70-100 ppm BT=0 cpm			
9.0 10.5	067015 05/29/91 12:50	3 4 4	18		LOOSE, BLACK (2.5Y, 2/) SILTY SAND TRACE FINE GRAVEL, DRY, 8.5-LOOSE, BLACK (2.5Y, 2/) SILT, SOME SAND, TRACE GRAVEL, DRY.	ML	N/A	PID=0 ppm α =70-100 ppm BT=0 cpm			
10.5 12.0	067016 05/29/91 13:05	4 4 4	18		LOOSE, BLACK (2.5Y, 2/) SANDY SILT, SOME FINE GRAVEL, SL. MOIST TO DRY.	ML	N/A	PID=0 ppm α =70-100 ppm BT=0 cpm			
12.0 13.5	067018 05/29/91 13:35	2 3 3	18		LOOSE, BLACK (2.5Y, 2/) SANDY SILT, SOME FINE GRAVEL, SL. MOIST TO DRY, 12.75-LOOSE, BLACK (2.5Y, 2/) SILTY SAND SOME FINE GRAVEL, MOIST TO WET.	ML SM	N/A	PID=0 ppm α =70-100 ppm BT=0 cpm			
13.5 15.0	067019 05/29/91 13:40	2 2 3	4		LOOSE, LIGHT OLIVE BROWN, (2.5Y, 5/2) CLAYEY SILT, TRACE SAND, WET.	ML	N/A	PID=0 ppm α =70-100 ppm BT=0 cpm			
18.0 19.5	067020 05/29/91 13:45	0 2 2 3	18		SOFT, DARK GRAYISH BROWN (2.5Y, 5/2) CLAY TRACE MED GRAVEL, MED TO HIGH PLASTICITY WET.	CL	0.25	PID=0 ppm α =200-300 ppm BT=0 cpm			
NOTES:											
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable											

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PROJECT NUMBER: 602 3.7				PROJECT NAME: CRUZ PHASE I FIELD INVESTIGATION							
BORING NUMBER: 1791				COORDINATES: NORTH 477812.99 EAST 1378970.18				DATE: 25-JUN-91			
GROUND ELEVATION: 571.1				GWL: Depth		Date/Time		DATE STARTED: 25-JUN-91			
ENGINEER/GEOLOGIST: J. LEAR				Depth		Date/Time		DATE COMPLETE: 26-JUN-91			
DRILLING METHOD: AUGER											
D E P T H	S A M P L E	D A T E E E	B L O W S E N	R A C O P L E	E C O V R E Y	I N C H E E S			S Y S M B S O L	T S F	REMARKS
27.0	067121	06/25/91	8 16	18	STIFF, DARK GRAYISH BROWN, (2.5Y, 4/2) CLAYEY SILT, V. MOIST.			ML	1.5	PID=0 ppm α =150-200 ppm BI=0 cpm	
28.5	067122	06/25/91	19 19	18	STIFF, DARK GRAYISH BROWN, (2.5Y, 4/2) CLAYEY SILT, V. MOIST.			ML	1.5	PID=0 ppm α =50-100 ppm BI=0 cpm	
30.0	067122	06/25/91	13 12 17	18	STIFF, DARK GRAYISH BROWN, (2.5Y, 4/2) CLAYEY SILT, V. MOIST.			ML	1.5	PID=0 ppm α =50-100 ppm BI=0 cpm	
NOTES:											
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable											

SAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

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PROJECT NUMBER: 602 3.7				PROJECT NAME: CRUZ PHASE I FIELD INVESTIGATION						
BORING NUMBER: 1849				COORDINATES: NORTH 477806.91 EAST 1378975.19			DATE: 22-FEB-92			
GROUND ELEVATION: 571.1				GWL: Depth Date/Time			DATE STARTED: 22-FEB-92			
ENGINEER/GEOLOGIST: D. O'BRIEN				Depth Date/Time			DATE COMPLETE: 22-FEB-92			
DRILLING METHOD: AUGER										
DEPTH	SAMPLE	SALE	TIME	BLOW COUNT	RECOVERY	INCHES	SUSPENDED	TEST	REMARKS	
							SYMBOL	TSF		
1.5	067601 02/22/92 09:00	3 4 8		12	MEDIUM STIFF, 10YR (5/3) BROWN, SILTY CLAY W/ SAND NO PLASTICITY, SLIGHTLY MOIST.			CL	.75	PID=0 ppm $\alpha=40$ ppm $BT=10$ cpm
1.5 3.0	067602 02/22/92 09:15	10 13 22		15	HARD, 10TR (5/4) YELLOWISH BROWN, SILTY CLAY, NO PLASTICITY, SLIGHTLY MOIST.			CL	>4.0	PID=3 ppm $\alpha=80$ ppm $BT=0$ cpm
3.0 4.5	067603 02/22/92 09:45	10 14 9		9	STIFF, 10YR (5/4) YELLOWISH BROWN, SILTY CLAY WOTH LARGE COBBLES, NO PLASTICITY, SLIGHTLY MOIST.			CL	1.5	PID=0 ppm $\alpha=60$ ppm $BT=10$ cpm
6.0 7.5	067604 02/22/92 10:10	13 10 -		12	MEDIUM DENSE, BLACK SILT, SOME GRAVEL, DRY. (POSSIBLE FLY ASH).			ML	N/A	PID=0 ppm $BT=60$ cpm
7.5 9.0	067605 02/22/92 10:30	6 5 4		15	LOOSE BLACK SILT, DRY (POSSIBLE FLY ASH).			ML	N/A	PID=0 ppm $BT=50$ cpm
9.0 10.5	067606 02/22/92 10:35	4 4 3		15	LOOSE BLACK SILT, DRY (POSSIBLE FLY ASH).			ML	N/A	PID=0 ppm $BT=40$ cpm
10.5 12.0	067607 02/22/92 10:40	3 3 3		12	LOOSE BLACK SILT, DRY (POSSIBLE FLY ASH).			ML	N/A	PID=0 ppm $BT=40$ cpm
12.0 13.5	067608 02/22/92 10:45	5 3 2		13	LOOSE BLACK SILT, DRY (POSSIBLE FLY ASH)			ML	N/A	PID=0 ppm $BT=40$ cpm
13.5 15.0	067609 02/22/92 10:50	2 2 2		18	LOOSE BLACK SILT, DRY (POSSIBLE FLY ASH)			ML	N/A	PID=0 ppm $BT=40$ cpm
15.0 16.5	067610 02/22/92 10:55	3 5 2		18	LOOSE BLACK SILT, DRY (POSSIBLE FLY ASH)			ML	N/A	PID=0 ppm $BT=50$ cpm
16.5 18.0	067611 02/22/92 11:00	2 2 2		18	LOOSE BLACK SILT, DRY (POSSIBLE FLY ASH)			ML	N/A	PID=0 ppm $BT=40$ cpm
18.0 19.5	067612 02/22/92 11:05	2 2 2		18	LOOSE, BLACK SILT, DRY (POSSIBLE FLY ASH)			ML	N/A	PID=0 ppm $BT=40$ cpm
19.5 21.0	067613 02/22/92 11:10	2 3 2		18	LOOSE, BLACK SILT, DRY (POSSIBLE FLY ASH)			ML	N/A	PID=0 ppm $BT=50$ cpm
NOTES:										
<p style="text-align: center;">SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable</p>										

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PROJECT NUMBER: 602 3.7				PROJECT NAME: CRU2 PHASE I FIELD INVESTIGATION									
BORING NUMBER: 1849				COORDINATES: NORTH 477806.91 EAST 1378975.19									
GROUND ELEVATION: 571.1				GWL: Depth		Date/Time		DATE STARTED: 22-FEB-92					
ENGINEER/GEOLOGIST: D. O'BRIEN				Depth		Date/Time		DATE COMPLETE: 22-FEB-92					
DRILLING METHOD: AUGER													
D E P T H	S A M P L E	D A T E E E	T M E E	B L O W S O N	S A C O L E	R E C O V E R Y	I N C H E S	S U S C S Y M B O L	T S F	REMARKS			
21.0	067614	3	3	3	18	LOOSE, BLACK SILT, DRY (POSSIBLE FLY ASH)			ML	N/A	PID=0 ppm BT=40 cpm		
22.5	067615	2	2	3	18	LOOSE, BLACK SILT, DRY (POSSIBLE FLY ASH)			ML	N/A	PID=0 ppm BT=60 cpm		
24.0	067638	3	3	4	18	LOOSE, BLACK SILT, DRY (POSSIBLE FLY ASH)			ML	N/A	PID=0 ppm BT=60 cpm		
25.5	067616	2	2	3	18	LOOSE, BLACK SILT, DRY (POSSIBLE FLY ASH)			ML	N/A	PID=0 ppm BT=40 cpm		
27.0	067617	2	2	3	18	LOOSE, BLACK SILT, DRY (POSSIBLE FLY ASH)			ML	N/A	PID=0 ppm BT=60 cpm		
28.5	067618	5	7	9	18	MED. STIFF 2.5Y, 5/2 GRAYISH BROWN SILTY CLAY W/ SMALL AMOUNT OF SAND, NO PLASTICITY, MOIST.			CL	.75	PID=0 ppm BT=60 cpm		
30.0	067619	10	9	10	18	STIFF 2.5Y (5/2) GRAYISH BROWN SILTY CLAY, NO PLASTICITY, MOIST.			CL	1.0	PID=0 ppm BT=50 cpm		
31.5	067620	12	7	9	18	STIFF 2.5 (4/3) OLIVE BROWN SILTY CLAY WITH GRAVEL, NO PLASTICITY, MOIST.			CL	1.0	PID=0 ppm BT=60 cpm		
33.0	067620	12	7	9	18								
NOTES:													
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable													

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PROJECT NUMBER: 602 3.7				PROJECT NAME: CRUZ PHASE I FIELD INVESTIGATION							
BORING NUMBER: 1850				COORDINATES: NORTH 478126.20 EAST 1378962.62				DATE: 23-FEB-92			
GROUND ELEVATION: 576.7				GWL: Depth Date/Time				DATE STARTED: 23-FEB-92			
ENGINEER/GEOLOGIST: D. O'BRIEN				Depth Date/Time				DATE COMPLETE: 23-FEB-92			
DRILLING METHOD: AUGER											
D E P T H	S A M P L E	D A T E E N	T M E S O N	B L O S P L E	S A C P R E Y	R A C H E R E	I N C H E S	S U Y S M C B S O L	T S F	REMARKS	
1.5	067623 02/23/92 08:55	5 8 9		12	VERY STIFF 10YR (6/6) BROWISH YELLOW SILTY CLAY, NO PLASTICITY, SLIGHTLY MOIST. LOOSE BLACK SILT, DRY (FLY ASH) 1.5 FT.			CL ML	3.5	PID=0 ppm BT=60 cpm	
1.5 3.0	067624 02/23/92 09:00	6 6 6		18	MEDIUM DENSE BLACK SILT, DRY (FLY ASH) 3.0 FT.			ML	N/A	PID=0 ppm BT=50 cpm	
3.0 4.5	067625 02/23/92 09:05	6 6 8		15	MEDIUM DENSE BLACK SILT, DRY (FLY ASH) 4.5 FT.			ML	N/A	PID=0 ppm BT=40 cpm	
4.5 6.0	067626 02/23/92 09:10	9 8 10		15	MEDIUM DENSE BLACK SILT, DRY (FLY ASH) 6.0 FT.			ML	N/A	PID=0 ppm BT=60 cpm	
6.0 7.5	067627 02/23/92 09:15	7 7 9		18	MEDIUM DENSE BLACK SILT, DRY (FLY ASH) 7.5 FT.			ML	N/A	PID=0 ppm BT=60 cpm	
7.5 9.0	067628 02/23/92 09:20	4 6 8		15	MEDIUM DENSE BLACK SILT, DRY (FLY ASH) 9.0 FT.			ML	N/A	PID=0 ppm BT=40 cpm	
9.0 10.5	067629 02/23/92 09:22	6 7 10		18	MEDIUM DENSE BLACK SILT, DRY (FLY ASH) 10.5 FT.			ML	N/A	PID=0 ppm BT=50 cpm	
10.5 12.0	067630 02/23/92 09:25	8 9 8		18	MEDIUM DENSE BLACK SILT, DRY (FLY ASH) 12.0 FT.			ML	N/A	PID=0 ppm BT=50 cpm	
12.0 13.5	067631 02/23/92 09:30	8 8 8		18	MEDIUM DENSE BLACK SILT, DRY (FLY ASH) 13.5 FT.			ML	N/A	PID=0 ppm BT=60 cpm	
13.5 15.0	067632 02/23/92 09:35	7 9 11		18	MEDIUM DENSE BLACK SILT, DRY (FLY ASH) 15.0 FT.			ML	N/A	PID=0 ppm BT=60 cpm	
15.0 16.5	067633 02/23/92 09:40	9 7 9		7	VERY STIFF 5Y (6/2) LIGHT OLIVE GRAY SILTY CLAY, LOW PLASTICITY, SLIGHTLY MOIST.			CL	2.75	PID=0 ppm BT=50 cpm	
16.5 18.0	067634 02/23/92 09:45	4 6 8		15	VERY STIFF 5Y (6/2) LIGHT OLIVE GRAY SILTY CLAY, LOW PLASTICITY, SLIGHTLY MOIST 18.0 FT.			CL	2.75	PID=0 ppm BT=60 cpm	
18.0 19.5	067635 02/23/92 09:50	6 7 11		15	MED. STIFF 5Y (6/2) LIGHT OLIVE GRAY SILTY CLAY, LOW PLASTICITY, SLIGHTLY MOIST 19.5 FT.			CL	.75	PID=0 ppm BT=60 cpm	
NOTES:											
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable											

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION										
BORING NUMBER: 1994					COORDINATES: NORTH 477742.39 EAST 1379200.09 DATE: 12-MAY-93										
GROUND ELEVATION: 570.3					GWL: Depth	Date/Time	DATE STARTED: 12-MAY-93								
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time	DATE COMPLETE: 13-MAY-93								
DRILLING METHOD: HOLLOW STEM AUGER															
D E P T H	S A D M P L E	D T M E E	B L O W S L E O N	R E C O V E R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS						
1.5	116262 116263 05/12/93 09:00	8	6	(10YR, 2/1) BLACK FLYASH, SLIGHTLY MOIST					N/A	N/A	PID=1.0 ppm BT=60 cpm				
3.5	116265 116266 05/12/93 09:15	22	6	SAA					N/A	N/A	PID=1.0 ppm BT=120 cpm				
5.5	116268 116269 05/12/93 10:50	6	4	SAA					N/A	N/A	PID=0 ppm BT=80 cpm				
7.5	116271 116272 05/12/93 10:55	6	6	(10YR, 2/1) BLACK, FLYASH, MOIST					N/A	N/A	PID=0 ppm BT=60 cpm				
8.0	116273 05/21/93 13:00	3	6	SAA					N/A	N/A	PID=0 ppm BT=60 cpm				
9.5	116274 116275 05/21/93 13:00	1	6	SAA					N/A	N/A	PID=0 ppm BT=60 cpm				
11.5	116277 116278 05/12/93 13:15	2	6	SAA					N/A	N/A	PID=0 ppm BT=80 cpm				
13.5	116280 116281 05/12/93 13:25	2	6	SAA					N/A	N/A	PID=0 ppm BT=60 cpm				
15.5	116284 116285 05/13/93 08:50	6	6	SAA					N/A	N/A	PID=2.7 ppm BT=80 cpm				
17.5	116287 116288 05/13/93 09:00	6	3	SAA					N/A	N/A	PID=2 ppm BT=80 cpm				
19.5	116290 116291 05/13/93 09:35	16	6	SAA					N/A	N/A	PID=0.6 ppm BT=80 cpm				
NOTES: 28.0 FT TO 30.0 FT SHELBY TUBE HAS ESTIMATED RECOVERY										Driller: JOE RAAB, ROGER DAVIS					
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable															

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1994					COORDINATES: NORTH 477742.39 EAST 1379200.09					
GROUND ELEVATION: 570.3					GWL: Depth	Date/Time	DATE STARTED: 12-MAY-93			
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time	DATE COMPLETE: 13-MAY-93			
DRILLING METHOD: HOLLOW STEM AUGER										
DEPTH	SAMPLE	DATE	TIME	BLOW COUNT	SAMPLE	RECOVERY	INCHES	SYMBOL	TSF	REMARKS
21.5	116293 116294 05/13/93 09:50	4		6	SAA					N/A N/A PID=1.7 ppm BT=80 cpm
22.0										
23.5	116296 116297 05/13/93 10:00	9		6	SAA					N/A N/A PID=1 ppm BT=60 cpm
24.0										
25.5	116299 116300 05/13/93 10:20	8		6	SAA					SP N/A PID=0 ppm BT=60 cpm
26.0										
27.5	116302 116303 05/13/93 10:30	23		3	SAA					ML N/A PID=0 ppm BT=110 cpm
28.0	116304 05/13/93 11:00	N/A	4		UNKNOWN					N/A N/A
28.5	116304 05/13/93 11:00	N/A	4		UNKNOWN					N/A N/A
29.0	116304 05/13/93 11:00	N/A	4		UNKNOWN					N/A N/A
29.5	116304 05/13/93 11:00	N/A	6		(5Y, 5/4) OLIVE, CLAYEY SILT, MOIST, TRACE GRAVEL					ML N/A
30.0	116305 05/13/93 14:00	10	6		VERY STIFF, (10YR, 4/6) DARK YELLOWISH BROWN, SILTY CLAY, LOW PLASTICITY MOIST					CL 2.0 PID=0 ppm BT=60 cpm
30.5	116306 05/13/93 14:00	15	6		VERY STIFF, (10YR, 4/6) DARK YELLOWISH BROWN, SILTY CLAY WITH A 1 INCH LAYER OF FLYASH, LOW PLASTICITY, MOIST					CL 4 PID=0 ppm BT=60 cpm
31.0	116307 05/13/93 14:00	17	2		VERY STIFF (10YR, 4/6) DARK YELLOWISH BROWN, SILTY CLAY, LOW PLASTICITY, MOIST					CL 4 PID=0 ppm BT=60 cpm
31.5	05/13/93 14:00	15	0		NO RECOVERY					N/A N/A
32.0										

NOTES:

28.0 FT TO 30.0 FT SHELBY TUBE HAS ESTIMATED RECOVERY

Driller: JOE RAAB, ROGER DAVIS

SAA = Same as Above

PID = Photoionization Detector

N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION							
BORING NUMBER: 1994					COORDINATES: NORTH 477742.39 EAST 1379200.09							
GROUND ELEVATION: 570.3					GWL: Depth	Date/Time		DATE STARTED: 12-MAY-93				
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 13-MAY-93				
DRILLING METHOD: HOLLOW STEM AUGER												
D E P T H	S A M P L E	D A I M E	B L O W S O N	S A M P L E	R E C O V E R Y	I N C H E S		S U S M C B S O L	T S F	REMARKS		
32.0	116308 116309 05/13/93 14:15	32		6	VERY STIFF (2.5YR, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, MOIST					CL	4	PID=0 ppm BT=80 cpm
32.5	116308 116309 05/13/93 14:15	21		6	SAA					CL	4	PID=0 ppm BT=80 cpm
33.0	116308 116309 05/13/93 14:15	26		6	VERY DENSE, (10YR, 3/6) DARK YELLOWISH BROWN, POORLY GRADED SILTY SAND, MOIST					SM	N/A	PID=0 ppm BT=80 cpm
33.5	116308 116309 05/13/93 14:15	31		6	SAA					SM	N/A	PID=0 ppm BT=80 cpm
34.0	116311 05/13/93 14:30	5		6	MEDIUM DENSE, (10YR, 4/6) DARK YELLOWISH BROWN, POORLY GRADED SAND WITH GRAVEL, MOIST					SP	N/A	PID=0 ppm BT=60 cpm
34.5	116311 05/13/93 14:30	4		6	SAA					SP	N/A	PID=0 ppm BT=60 cpm
35.0	05/13/93 14:30	11		0	NO RECOVERY					N/A	N/A	
35.5	05/13/93 14:30	10		0	NO RECOVERY					N/A	N/A	
36.0	116312 05/13/93 14:50	9		6	VERY DENSE (2.5Y, 5/4) LIGHT OLIVE BROWN, POORLY GRADED SAND WITH GRAVEL, MOIST					SP	N/A	PID=0 ppm BT=60 cpm
36.5	116312 05/13/93 14:50	9		6	SAA					SP	N/A	PID=0 ppm BT=60 cpm
37.0	116312 05/13/93 14:50	15		6	SAA					SP	N/A	PID=0 ppm BT=60 cpm
37.5	116313 116314 05/13/93 14:50	44		6	VERY DENSE (2.5Y, 5/4) LIGHT OLIVE BROWN, POORLY GRADED SAND, TRACE GRAVEL, MOIST					SP	N/A	
38.0												
NOTES: 28.0 FT TO 30.0 FT SHELBY TUBE HAS ESTIMATED RECOVERY					Driller: JOE RAAB, ROGER DAVIS							
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable												

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1995					COORDINATES: NORTH 477770.18 EAST 1379054.76			DATE: 01-MAY-93		
GROUND ELEVATION: 567.9					GWL: Depth		Date/Time		DATE STARTED: 01-MAY-93	
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 02-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E E E	B L O W S P L E O N	R E C O V E R Y	I N C H E S			S Y S M C B S O L	T S F	REMARKS
.5	116077 05/01/93 09:15	4		6	MEDIUM DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, CLAYEY SILT WITH GRAVEL TRACE FLYASH		ML	N/A	PID=40-100 ppm BT=1.9 cpm	
.5 1.0	116077 05/01/93 09:15	9		6	SAA		ML	N/A	PID=1.9 ppm BT=40-100 cpm	
1.0 1.5	116077 05/01/93 09:15	12		6	SAA		ML	N/A	PID=1.9 ppm BT=40-100 cpm	
1.5 2.0	116078 116079 05/01/93 09:15	14		3	SAA; AND (10YR, 2/1) BLACK, FLYASH, SLIGHTLY MOIST		ML	N/A	PID=1.9 ppm BT=40-100 cpm	
2.0 2.5	116080 05/01/93 09:30	9		6	(10YR, 2/1) BLACK, FLYASH, SLIGHTLY MOIST, TRACE SILTY CLAY		N/A	N/A	BT=180 cpm	
2.5 3.0	116080 05/01/93 09:30	9		6	STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY WITH GRAVEL, TRACE FLYASH		N/A CL	N/A 1.5	BT=120 cpm	
3.0 3.5	116080 05/01/93 09:30	11		6	SAA		N/A CL	N/A	BT=120 cpm	
3.5 4.0	116081 116082 05/01/93 09:30	15		6	(10YR, 2/1) BLACK FLYASH, SLIGHTLY MOIST, TRACE CLAY		N/A	N/A	PID=1.5 ppm BT=120 cpm	
4.0 4.5	116083 05/01/93 10:00	2		6	LOOSE, (2.5Y, 5/6) LIGHT OLIVE BROWN, CLAYEY SILT WITH GRAVEL, TRACE FLYASH		ML	N/A	PID=0 ppm BT=80 cpm	
4.5 5.0	116083 05/01/93 10:00	3		6	SAA		ML	N/A	PID=0 ppm BT=80 cpm	
5.0 5.5	116083 05/01/93 10:00	2		6	(10YR, 2/1) BLACK, FLYASH, SLIGHTLY MOIST		N/A	N/A	PID=0 ppm BT=80 cpm	
5.5 6.0	116084 116085 05/01/93 10:00	4		6	LOOSE, (2.5Y, 5/6) LIGHT OLIVE BROWN, CLAYEY SILT WITH GRAVEL, TRACE FLYASH		ML	N/A	PID=0 ppm BT=80 cpm	
NOTES: AT 26-26.5' MAGNESIUM MODULES WERE FOUND IN THE SILT THIS MAY INDICATE AN ORIGINARY SOIL HORIZON.					Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: CME-45					
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1995					COORDINATES: NORTH 477770.18 EAST 1379054.76			DATE: 01-MAY-93		
GROUND ELEVATION: 567.9					GWL: Depth	Date/Time		DATE STARTED: 01-MAY-93		
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 02-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E E E	T M P T M E S	B L O W N O R	R E C O V E R Y	I N C H E S	S U S M C B S O L	T S F	REMARKS	
6.0 6.5	116086 05/01/93 10:15	3	6	STIFF, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY WITH GRAVEL AND FLYASH				CL	1.0	PID=.1 ppm BT=80 cpm
6.5 7.0	116087 05/01/93 10:15	4	6	SAA				CL	1	PID=.1 ppm BT=80 cpm
7.0 7.5	116088 05/01/93 10:15	4	3	SAA				CL	1	PID=.1 ppm BT=80 cpm
7.5 8.0	05/01/93 10:15	49	0	NO RECOVERY				N/A	N/A	
8.0 8.5	116090 05/01/93 13:15	1	6	(10YR, 2/1) BLACK, FLYASH, SLIGHTLY MOIST				N/A	N/A	PID=0 ppm BT=60 cpm
8.5 9.0	116090 05/01/93 13:15	1	6	SAA				N/A	N/A	PID=0 ppm BT=60 cpm
9.0 9.5	116091 116092 05/01/93 13:15	1	6	SAA				N/A	N/A	PID=0 ppm BT=60 cpm
9.5 10.0	05/01/93 13:15	1	0	NO RECOVERY				N/A	N/A	
10.0 10.5	116093 05/01/93 13:30	1	6	(10YR, 2/1) BLACK, FLYASH, SLIGHTLY MOIST				N/A	N/A	PID=0 ppm BT=60 cpm
10.5 11.0	116093 05/10/93 13:30	2	6	SAA				N/A	N/A	PID=0 ppm BT=60 cpm
11.0 11.5	116094 116095 05/01/93 13:30	2	6	SAA				N/A	N/A	PID=0 ppm BT=60 cpm
11.5 12.0	05/01/93 13:30	1	0	NO RECOVERY				N/A	N/A	
12.0 12.5	116096 05/01/93 14:00	2	6	(10YR, 2/1) BLACK, FLYASH, SLIGHTLY MOIST				N/A	N/A	PID=0 ppm BT=90 cpm
NOTES: AT 26-26.5' MAGNESIUM MODULES WERE FOUND IN THE SILT THIS MAY INDICATE AN ORIGINARY SOIL HORIZON.										Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: CME-45
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1995					COORDINATES: NORTH 477770.18 EAST 1379054.76			DATE: 01-MAY-93	
GROUND ELEVATION: 567.9					GWL: Depth	Date/Time		DATE STARTED: 01-MAY-93	
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 02-MAY-93	
DRILLING METHOD: HOLLOW STEM AUGER									
DEPTH	S A M P L E	D T I M E E	B L O W S P L E O N	S A M P L E R E C O V E R Y	R E C O V E R Y H I N C H E S	S U Y M B S O L	T S F	REMARKS	
12.5	116096 05/01/93 14:00	2	6	SAA		N/A	N/A	PID=0 ppm BT=90 cpm	
13.0	116096 05/01/93 14:00	2	6	SAA		N/A	N/A	PID=0 ppm BT=90 cpm	
13.5	116097 116098 05/01/93 14:00	2	6	SAA		N/A	N/A	PID=90 ppm BT=0 cpm	
14.0	116099 05/01/93 14:15	1	6	SAA		N/A	N/A	PID=0 ppm BT=80 cpm	
14.5	116099 05/01/93 14:15	1	6	SAA		N/A	N/A	PID=0 ppm BT=80 cpm	
15.0	116100 116101 05/01/93 14:15	1	6	(10YR, 2/1) BLACK, FLYASH, SLIGHTLY MOIST		N/A	N/A	PID=0 ppm BT=80 cpm	
15.5	05/01/93 14:15	1	0	NO RECOVERY		N/A	N/A		
16.0	116102 05/01/93 14:30	2	6	(10YR, 2/1) BLACK, FLYASH, SLIGHTLY MOIST		N/A	N/A	PID=0 ppm BT=60 cpm	
16.5	116102 05/01/93 14:30	3	6	SAA		N/A	N/A	PID=0 ppm BT=60 cpm	
17.0	116103 116104 05/01/93 14:30	3	3	SAA		N/A	N/A	PID=0 ppm BT=60 cpm	
17.5	05/01/93 14:30	4	0	NO RECOVERY		N/A	N/A		
18.0	116105 05/01/93 14:50	5	6	(10YR, 2/1) BLACK, FLYASH, SLIGHTLY MOIST		N/A	N/A	PID=0 ppm BT=60 cpm	
NOTES: AT 26-26.5' MAGNESIM MODULES WERE FOUND IN THE SILT THIS MAY INDICATE AN ORIGINARY SOIL HORIZON.									
Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: CME-45 SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1995					COORDINATES: NORTH 477770.18 EAST 1379054.76				
GROUND ELEVATION: 567.9					GWL: Depth	Date/Time		DATE STARTED: 01-MAY-93	
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 02-MAY-93	
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E E	B L O W S P E N O N	T I M E E E	R E C O V E R Y	I N C H E S	S U S C B S O L	T S F	REMARKS
18.5	116105 05/01/93 14:50	3		6	SAA		N/A	N/A	PID=0 ppm BT=60 cpm
19.0	116105 05/01/93 14:50	2		6	SAA		N/A	N/A	PID=0 ppm BT=60 cpm
19.5	116106 116107 05/01/93 14:50	6		6	SAA		N/A	N/A	PID=0 ppm BT=60 cpm
20.0	116108 05/01/93 15:30	1		6	SAA		N/A	N/A	PID=.3 ppm BT=60 cpm
20.5	116108 05/01/93 15:30	2		6	SAA		N/A	N/A	PID=.3 ppm BT=60 cpm
21.0	116108 05/01/93 15:30	1		6	SAA		N/A	N/A	PID=0.3 ppm BT=60 cpm
21.5	116109 116110 05/01/93 15:30	1		6	SAA		N/A	N/A	PID=.3 ppm BT=60 cpm
22.0	116111 05/01/93 15:40	2		6	SAA		N/A	N/A	PID=.3 ppm BT=40 cpm
22.5	116111 05/01/93 15:40	2		6	(10YR, 2/1) BLACK, FLYASH, SLIGHTLY MOIST		N/A	N/A	PID=.3 ppm BT=40 cpm
23.0	116111 05/01/93 15:40	4		6	SAA		N/A	N/A	PID=.3 ppm BT=40 cpm
23.5	116112 116113 05/01/93 15:40	7		6	SAA		N/A	N/A	PID=.3 ppm BT=40 cpm
24.0	116114 05/01/93 15:55	2		6	SAA		N/A	N/A	PID=.1 ppm BT=40 cpm
NOTES: AT 26-26.5' MAGNESIM MODULES WERE FOUND IN THE SILT THIS MAY INDICATE AN ORIGINARY SOIL HORIZON.									
Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: CME-45 SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1995					COORDINATES: NORTH 477770.18 EAST 1379054.76			DATE: 01-MAY-93		
GROUND ELEVATION: 567.9					GWL: Depth Date/Time			DATE STARTED: 01-MAY-93		
ENGINEER/GEOLOGIST: J BOYER					Depth Date/Time			DATE COMPLETE: 02-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E E E	B L O S O N	T I M E S P L E R	R E C O V E R	I N C H E E S		S U S M C B S O L	T S F	REMARKS
24.5 25.0	116114 05/01/93 15:55	3		6	SAA			N/A	N/A	PID=.1 ppm BT=40 cpm
25.0 25.5	116114 05/01/93 15:55	4		6	SAA			N/A	N/A	PID=.1 ppm BT=40 cpm
25.5 26.0	116115 116116 05/01/93 15:55	1		6	SAA			N/A	N/A	PID=.1 ppm BT=40 cpm
26.0 26.5	116117 05/01/93 16:10	3		6	MEDIUM DENSE, (10YR, 3/2) VERY DARK GRAYISH BROWN, SILT, MOIST			ML	N/A	PID=0 ppm BT=60 cpm
26.5 27.0	116117 05/01/93 16:10	7		6	SAA			ML	2	PID=0 ppm BT=60 cpm
27.0 27.5	116118 116169 05/01/93 16:10	4		6	SAA			ML	3	PID=0 ppm BT=60 cpm
27.5 28.0	116118 116169 05/01/93 16:10	14		6	SAA			ML	3	PID=0 ppm BT=60 cpm
28.0 28.5	116170 05/01/93 16:30	15		6	VERY DENSE, MEDIUM DENSE, (10YR, 4/3) BROWN, CLAYEY SILT, NO PLASTICITY, SLIGHLY MOIST			ML	2.5	PID=.3 ppm BT=60 cpm
28.5 29.0	116170 05/01/93 16:30	21		6	SAA			ML	3.5	PID=.3 ppm BT=60 cpm
29.0 29.5	116170 05/01/93 16:30	27		6	SAA			ML	3.5	PID=.3 ppm BT=60 cpm
29.5 30.0	116170 05/01/93 16:30	28		4	SAA			ML	3	PID=.3 ppm BT=60 cpm
30.0 30.5	116172 05/02/93 09:30	34		6	DENSE, (10YR, 4/4) DARK YELLOWISH BROWN, CLAYEY SILT, TRACE GRAVEL, LOW PLASTICITY, MOIST			ML	N/A	PID=.9 ppm BT=80 cpm
NOTES: AT 26-26.5' MAGNESIUM MODULES WERE FOUND IN THE SILT THIS MAY INDICATE AN ORIGINARY SOIL HORIZON.					Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: CME-45					
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1995					COORDINATES: NORTH 477770.18 EAST 1379054.76			DATE: 01-MAY-93		
GROUND ELEVATION: 567.9					GWL: Depth	Date/Time		DATE STARTED: 01-MAY-93		
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 02-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E E E	B L O W S O N	R E A C P L E R Y				S U Y S M C B S O L	T S F	REMARKS
30.5	116172 05/02/93 09:30	13	6	SAA				ML	N/A	PID=.9 ppm BT=80 cpm
31.0	116172 05/02/93 09:30	16	6	MEDIUM DENSE, (10YR, 5/4) YELLOWISH BROWN, SILTY GRAVEL WITH COARSE SAND, POORLY GRADED, MOIST				GM	N/A	PID=.9 ppm BT=80 cpm
31.5	116173 116174 05/02/93 09:30	22	4	SAA				GM	N/A	PID=.9 ppm BT=80 cpm
NOTES: AT 26-26.5' MAGNESIM MODULES WERE FOUND IN THE SILT THIS MAY INDICATE AN ORIGINARY SOIL HORIZON.										Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: CME-45 SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1996					COORDINATES: NORTH 477819.85 EAST 1379114.90				
GROUND ELEVATION: 565.5					GWL: Depth Date/Time				
ENGINEER/GEOLOGIST: J BOYER					Depth Date/Time				
DRILLING METHOD: HOLLOW STEM AUGER									
DEPTH	S A D T M A I M P T M L E E	B L O W S S A M P L E O N	R E C O V E R Y	I N C H E S		S U S M C B S O L	T S F	REMARKS	
1.5	112070 04/29/93 10:55	9 9 14	6		MEDIUM DENSE, (10YR,4/6) SANDY SILT WITH GRAVEL, MOIST TO DRY; (10YR,2/1), FLYASH, BLACK	ML SM	N/A	PID=0 ppm BT=80 cpm	
1.5 2.0	112071 112072 04/29/93 10:55	27	6		MEDIUM DENSE, (10YR, 4/6) DARK YELLOWISH, CLAYEY SILTY WITH GRAVEL, SLIGHT PLASTICITY, MOIST	ML	N/A	PID=80 ppm BT=0 cpm	
2.0 4.0	112073 04/29/93 11:15	N/A 22	0		SAA	N/A	N/A	PID=80 ppm BT=.0 cpm	
2.0 2.5	112073 04/29/93 11:15	10	6		(10YR, 2/1) BLACK, FLYASH, WET	N/A	N/A	PID=80 ppm BT=0 cpm	
2.5 3.0	112073 04/29/93 11:15	14	6		SAA	N/A	N/A	PID=80 ppm BT=0 cpm	
4.0 4.5	112074 04/29/93 13:20	8	6		(10YR, 2/1) BLACK, FLYASH, WITH SILTY CLAY, AND GRAVEL	N/A	N/A	PID=60 ppm BT=0 cpm	
4.5 6.0	04/29/93 13:20	8 6 8	0		NO RECOVERY	N/A	N/A		
6.0 6.5	112075 112076 04/29/93 13:25	6	6		(10YR, 2/1) BLACK, FLYASH, DRY	N/A	N/A	PID=60 ppm BT=0 cpm	
6.5 7.0	112075 112076 04/29/93 13:25	6	6		SAA	N/A	N/A	PID=60 ppm BT=0 cpm	
7.0 8.0	04/29/93 13:25	8	0		NO RECOVERY	N/A	N/A		
8.0 8.5	112077 04/29/93 13:40	4	6		(10YR, 2/1) BLACK, FLYASH, DRY	N/A	N/A	PID=80 ppm BT=0 cpm	
8.5 9.0	112077 04/29/93 13:40	2	6		SAA	N/A	N/A	PID=80 ppm BT=0 cpm	
NOTES:									
Boring Contractor: PENNSYLVANIA DRILLING Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: CME-45									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 1996					COORDINATES: NORTH 477819.85 EAST 1379114.90			DATE: 29-APR-93			
GROUND ELEVATION: 565.5					GWL: Depth	Date/Time		DATE STARTED: 29-APR-93			
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 29-APR-93			
DRILLING METHOD: HOLLOW STEM AUGER											
D E P T H	S A M P L E	D A T E E E	T M S E E	B L O W S O N	R A C P L E	S A C O V E R Y	E I N C H E S	S U S C B S O L	T S F	REMARKS	
9.0	112077 04/29/93 13:40		1		6	SAA			N/A	N/A	PID=80 ppm BT=0 cpm
9.5	112078 112079 04/29/93 13:40		2		3	SAA			N/A	N/A	PID=80 ppm BT=0 cpm
10.0	112080 04/29/93 13:50	N/A		N/A	SHELBY TUBE				N/A	N/A	
12.0	112081 04/29/93 14:00		1		6	(10YR, 2/1) BLACK, FLYASH, DRY			N/A	N/A	PID=80 ppm BT=0 cpm
12.5	112081 04/29/93 14:00		1		6	SAA			N/A	N/A	PID=80 ppm BT=0 cpm
13.0	112082 112083 04/29/93 14:00		1		6	SAA			N/A	N/A	PID=80 ppm BT=0 cpm
13.5	04/29/93 14:00		1		0	NO RECOVERY			N/A	N/A	
14.0	112084 04/29/93 14:30	4	3		6	(10YR, 2/1) BLACK, FLYASH, DRY			N/A	N/A	PID=80 ppm BT=0 cpm
14.5	112084 04/29/93 14:30		8		6	SAA			N/A	N/A	PID=80 ppm BT=0 cpm
15.0	112085 112086 04/29/93 14:50		11		6	(10YR, 2/1) BLACK, FLYASH, DRY, PLYWOOD FRAGMENT			N/A	N/A	PID=80 ppm BT=0 cpm
15.5	04/29/93 14:50	N/A		0	NO RECOVERY				N/A	N/A	
16.0	112087 04/29/93 14:45		7		6	(10YR, 2/1) BLACK, FLYASH, MOIST, WITH WOOD ODOR			N/A	N/A	BT=80 cpm
NOTES:										Boring Contractor: PENNSYLVANIA DRILLING Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: CME-45	
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1996					COORDINATES: NORTH 477819.85 EAST 1379114.90			DATE: 29-APR-93	
GROUND ELEVATION: 565.5					GWL: Depth	Date/Time		DATE STARTED: 29-APR-93	
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 29-APR-93	
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E E	B L O W S L E E N	T I M E E S P L O N	R E C O V R E Y	I N C H E E S	S U S C B S O L	T S F	REMARKS
16.5	112088 04/29/93 14:45	21		6	MEDIUM DENSE, (2.5Y,6/4) LIGHT YELLOWISH BROWN, POORLY GRADED SAND, SLIGHTLY MOIST		N/A	N/A	BT=80 cpm
17.0									
17.0	04/29/93 14:45	12		3	SAA		SP	N/A	PID=13.1 ppm BT=80 cpm
17.5									
17.5	04/29/93 14:45	12		0	NO RECOVERY		N/A	N/A	
18.0									
18.0	112090 04/29/93 15:20	11		6	MEDIUM DENSE, (2.5Y,5/6) LIGHT OLIVE BROWN, POORLY GRADED SAND, SLIGHTLY MOIST		SP	N/A	PID=14.1 ppm BT=80 cpm
18.5									
18.5	116069 04/29/93 15:20	14		6	SAA		SP	N/A	PID=14.1 ppm BT=80 cpm
19.0									
19.0	112089 04/29/93 15:20	10		2	SAA		SP	N/A	PID=14.1 ppm BT=80 cpm
19.5									
19.5	04/29/93 15:20	9		0	NO RECOVERY		N/A	N/A	
20.0									
20.0	116070 04/29/93 15:40	21		6	MEDIUM DENSE, (2.5Y,5/6) LIGHT OLIVE BROWN, POORLY GRADED SAND, SLIGHTLY MOIST		SP	N/A	PID=5.1 ppm BT=80 cpm
20.5									
20.5	116070 04/29/93 15:40	12		6	SAA		SP	N/A	PID=5.1 ppm BT=80 cpm
21.0									
21.0	116070 04/29/93 15:40	14		6	SAA		N/A	N/A	PID=5.1 ppm BT=80 cpm
21.5									
21.5	116071 116072 04/29/93 15:40	11		4	SAA		SP	N/A	PID=5.1 ppm BT=80 cpm
22.0									
NOTES:									
Boring Contractor: PENNSYLVANIA DRILLING Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: CME-45									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 1997					COORDINATES: NORTH 477871.13 EAST 1378960.50			DATE:			
GROUND ELEVATION: 570.4					GWL: Depth	Date/Time		DATE STARTED: 05-MAY-93			
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 07-MAY-93			
DRILLING METHOD: HOLLOW STEM AUGER											
D E P T H	S A M P L E	D T E E	B L O W M S P L E O N	S A M A I T H E E	R E C O V R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS	
.5	116177 05/05/93 09:20	4		6	LOOSE, (2.5Y,5/6) LIGHT OLIVE BROWN, CLAYEY SILT, TRACE GRAVEL, NO PLASTICITY, MOIST				ML	N/A	PID=0 ppm BT=60 cpm
.5 1.0	116177 05/05/93 09:20	4		6	SAA				ML	N/A	PID=0 ppm BT=60 cpm
1.0 1.5	116177 05/05/93 09:20	4		6	VERY STIFF, (5Y,5/6) OLIVE, SILTY CLAY, TRACE GRAVEL, LOW PLASTICITY, MOIST				CL	3	PID=0 ppm BT=60 cpm
1.5 2.0	116178 116179 05/05/93 09:20	8		4	SAA				CL	2.75	PID=0 ppm BT=60 cpm
2.0 2.5	116180 05/05/93 09:40	5		6	SAA				CL	2.25	PID=0 ppm BT=60 cpm
2.5 3.0	116180 05/05/93 09:40	7		6	SAA				CL	2.75	PID=0 ppm BT=60 cpm
3.0 3.5	116180 05/05/93 09:40	5		6	STIFF, (5Y,4/4) OLIVE, SILTY CLAY, WITH FLYASH, TRACE GRAVEL, LOW PLASTICITY, MOIST				CL	1.5	PID=0 ppm BT=60 cpm
3.5 4.0	116181 116182 05/05/93 09:40	7		3	SAA				CL	1.5	PID=0 ppm BT=60 cpm
4.0 4.5	116183 05/05/93 10:00	7		6	VERY STIFF, (2.5Y,5/6) LIGHT OLIVE BROWN, SILTY CLAY WITH GRAVEL, TRACE FLYASH, LOW PLASTICITY, MOIST				CL	3.5	PID=0 ppm BT=60 cpm
4.5 5.0	116183 05/05/93 10:00	11		6	SAA				CL	2.75	PID=0 ppm BT=60 cpm
5.0 5.5	116183 05/05/93 10:00	13		6	(10YR 2/1) BLACK, FLYASH, DRY				N/A	N/A	PID=0 ppm BT=60 cpm
5.5 6.0	116184 116185 05/05/93 10:00	15		6	SAA				N/A	N/A	PID=0 ppm BT=60 cpm
NOTES:										Driller: JOE RAAB Drilling Equipment: HOLLOW STEM AUGER	
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 1997				COORDINATES: NORTH 477871.13 EAST 1378960.50			DATE:			
GROUND ELEVATION: 570.4				GWL: Depth Date/Time			DATE STARTED: 05-MAY-93			
ENGINEER/GEOLOGIST: J BOYER				Depth Date/Time			DATE COMPLETE: 07-MAY-93			
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E E E	B L O W S L E E	S A C O L E R Y	R E C O V E R Y	I N C H E S	S U Y S M C B S O L	T S F	REMARKS	
6.0	116186 05/05/93 10:20	11	6	(10YR,2/1) BLACK, FLYASH, SLIGHTLY MOIST				N/A	N/A	PID=0 ppm BT=60 cpm
6.5	116186 05/05/93 10:20	17	6	SAA				N/A	N/A	PID=0 ppm BT=60 cpm
7.0	116186 05/05/93 10:20	22	6	SAA				N/A	N/A	PID=0 ppm BT=60 cpm
7.5	116187 116188 05/05/93 10:20	34	6	(10Y 2/1) BLACK, FLYASH, SLIGHTLY MOIST				N/A	N/A	PID=0 ppm BT=60 cpm
8.0	116189 05/05/93 10:30	2	6	SAA				N/A	N/A	PID=0 ppm BT=60 cpm
8.5	116189 05/05/93 10:30	2	6	SAA				N/A	N/A	PID=0 ppm BT=60 cpm
9.0	116189 05/05/93 10:30	2	6	SAA				N/A	N/A	PID=0 ppm BT=60 cpm
9.5	116190 116191 05/05/93 10:30	2	2	SAA				N/A	N/A	PID=0 ppm BT=60 cpm
10.0	116192 05/05/93 13:00	3	6	SAA				N/A	N/A	PID=0 ppm BT=40 cpm
10.5	116192 05/05/93 13:00	2	6	SAA				N/A	N/A	PID=0 ppm BT=40 cpm
11.0	116192 05/05/93 13:00	3	6	SAA				N/A	N/A	PID=0 ppm BT=40 cpm
11.5	116193 116194 05/05/93 13:00	1	3	SAA				N/A	N/A	PID=0 ppm BT=40 cpm
NOTES:										
Driller: JOE RAAB Drilling Equipment: HOLLOW STEM AUGER SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

000365

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 1997					COORDINATES: NORTH 477871.13 EAST 1378960.50 DATE:						
GROUND ELEVATION: 570.4					GWL: Depth Date/Time			DATE STARTED: 05-MAY-93			
ENGINEER/GEOLOGIST: J BOYER					Depth Date/Time			DATE COMPLETE: 07-MAY-93			
DRILLING METHOD: HOLLOW STEM AUGER											
D E P T H	S A M P L E	D T E E	B L O W S O N	S A M P L E	R E C O V E R Y	I N C H E S		S U S M C B S O L	T S F	REMARKS	
12.0	116195 05/05/93 13:25	2		6	SAA			N/A	N/A	PID=0 ppm BT=60 cpm	
12.5	116195 05/05/93 13:25	2		6	SAA			N/A	N/A	PID=0 ppm BT=60 cpm	
13.0	116195 05/05/93 13:25	2		6	SAA			N/A	N/A	PID=0 ppm BT=60 cpm	
13.5	116196 116197 05/05/93 13:25	2		2	SAA			N/A	N/A	PID=0 ppm BT=60 cpm	
14.0	116198 05/05/93 13:35	4		6	SAA			N/A	N/A	PID=0 ppm BT=60 cpm	
14.5	116198 05/05/93 13:35	3		6	SAA			N/A	N/A	PID=0 ppm BT=60 cpm	
15.0	116198 05/05/93 13:35	2		6	(10Y 2/1) BLACK, FLYASH, SLIGHTLY MOIST			N/A	N/A	PID=0 ppm BT=60 cpm	
15.5	116199 116200 05/05/93 13:35	3		6	SAA			N/A	N/A	PID=0 ppm BT=60 cpm	
16.0	116201 05/05/93 13:50	4		6	SAA			N/A	N/A	PID=0 ppm BT=60 cpm	
16.5	116201 05/05/93 13:50	3		6	SAA			N/A	N/A	PID=0 ppm BT=60 cpm	
17.0	116201 05/05/93 13:50	3		6	SAA			N/A	N/A	PID=0 ppm BT=60 cpm	
17.5	116202 116203 05/05/93 13:50	2		2	SAA			N/A	N/A	PID=0 ppm BT=60 cpm	
NOTES:										Driller: JOE RAAB Drilling Equipment: HOLLOW STEM AUGER	
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION											
BORING NUMBER: 1997					COORDINATES: NORTH 477871.13 EAST 1378960.50											
GROUND ELEVATION: 570.4					GWL: Depth	Date/Time			DATE STARTED: 05-MAY-93							
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time			DATE COMPLETE: 07-MAY-93							
DRILLING METHOD: HOLLOW STEM AUGER																
D E P T H	S A M P L E	D A T E	T I M E	B L O W S A M P L E O N	R E C O V E R Y	I N C H E S		S Y S M C B S O L	T S F	REMARKS						
18.0	116204 05/05/93 14:00	4		6	SAA					N/A	N/A	PID=0 ppm BT=60 cpm				
18.5	116204 05/05/93 14:00	2		6	SAA					N/A	N/A	PID=0 ppm BT=60 cpm				
19.0	116204 05/05/93 14:00	2		6	SAA					N/A	N/A	PID=0 ppm BT=60 cpm				
19.5	116205 116206 05/05/93 14:00	3		6	SAA					N/A	N/A	PID=0 ppm BT=60 cpm				
20.0	116207 05/05/93 14:50	5		6	SAA					N/A	N/A	PID=0 ppm BT=60 cpm				
20.5	116207 05/05/93 14:50	3		6	SAA					N/A	N/A	PID=0 ppm BT=60 cpm				
21.0	116207 05/05/93 14:50	2		6	SAA					N/A	N/A	PID=0 ppm BT=60 cpm				
21.5	116208 116209 05/05/93 14:50	2		3	SAA					N/A	N/A	PID=0 ppm BT=60 cpm				
22.0	116210 05/05/93 15:00	5		6	SAA					N/A	N/A	PID=0 ppm BT=60 cpm				
22.5	116210 05/05/93 15:00	3		6	(10YR 2/1) BLACK, FLYASH, SLIGHTLY MOIST					N/A	N/A	PID=0 ppm BT=60 cpm				
23.0	116210 05/05/93 15:00	2		6	SAA					N/A	N/A	PID=0 ppm BT=60 cpm				
23.5	116211 116212 05/05/93 15:00	1		4	SAA					N/A	N/A	PID=0 ppm BT=60 cpm				
NOTES:										Driller: JOE RAAB						
										Drilling Equipment: HOLLOW STEM AUGER						
										SAA = Same as Above						
										PID = Photoionization Detector						
										N/A = Not Applicable						

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1997					COORDINATES: NORTH 477871.13 EAST 1378960.50					
GROUND ELEVATION: 570.4					GWL: Depth	Date/Time		DATE STARTED: 05-MAY-93		
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 07-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E	T I M E	B L O W S O N	R E A C L O V E R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS
24.0	116213 05/05/93 15:10	2		6	SAA			N/A	N/A	PID=0 ppm BI=60 cpm
24.5	116213 05/05/93 15:10	2		6	SAA			N/A	N/A	PID=0 ppm BI=60 cpm
25.0	116213 05/05/93 15:10	2		6	SAA			N/A	N/A	PID=0 ppm BI=60 cpm
25.5	116214 116215 05/05/93 15:10	2		4	SAA			N/A	N/A	PID=0 ppm BI=60 cpm
26.0	116216 05/05/93 15:15	2		6	(10YR 2/1) BLACK, FLYASH, MOIST			N/A	N/A	PID=0 ppm BI=60 cpm
26.5	116216 05/05/93 15:15	3		6	SAA			N/A	N/A	PID=0 ppm BI=60 cpm
27.0	116216 05/05/93 15:15	2		6	SAA			N/A	N/A	PID=0 ppm BI=60 cpm
27.5	116217 116218 05/05/93 15:15	4		3	SAA			N/A	N/A	PID=0 ppm BI=60 cpm
28.0	116241 116242 05/06/93 09:00	5		6	SAA			N/A	N/A	PID=0 ppm BI=60 cpm
28.5	116243 05/06/93 09:00	4		6	LOOSE, (5Y,4/4) OLIVE, SILT, MOIST, NO PLASTICITY		ML	N/A	N/A	PID=0 ppm BI=60 cpm
29.0	116243 05/06/93 09:00	5		6	SAA		ML	N/A	N/A	PID=0 ppm BI=60 cpm
29.5	116243 05/06/93 09:00	1		6	SAA		ML	N/A	N/A	PID=0 ppm BI=60 cpm
30.0										
NOTES:										Driller: JOE RAAB Drilling Equipment: HOLLOW STEM AUGER
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1997					COORDINATES: NORTH 477871.13 EAST 1378960.50				
GROUND ELEVATION: 570.4					GWL: Depth	Date/Time		DATE STARTED: 05-MAY-93	
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 07-MAY-93	
DRILLING METHOD: HOLLOW STEM AUGER									
DEPTH	SAMPLE	DATE	BLOW COUNT	RECOVERY	INCHES	SYMBOL	TSF	REMARKS	
30.0	116244 116245 05/06/93 09:25	7		6	MEDIUM DENSE, (5Y,3/2) DARK OLIVE GRAY, CLAYEY SILT, TRACE COARSE SAND, SLIGHT PLASTICITY, MOIST	ML	N/A	PID=0 ppm BT=60 cpm	
30.5	116246 05/05/93 09:25	9		6	SAA	ML	N/A	PID=0 ppm BT=60 cpm	
31.0	116247 05/05/93 09:25	11		6	SAA	ML	N/A	PID=0 ppm BT=60 cpm	
31.5	116248 05/05/93 09:25	14		4	SAA	ML	N/A	PID=0 ppm BT=60 cpm	
32.0	116249 05/05/93 10:20	N/A		6	SAA	ML	N/A		
32.5	116249 05/05/93 10:20	N/A		6	UNKNOWN	N/A	N/A		
33.0	116249 05/05/93 10:20	N/A		6	UNKNOWN	N/A	N/A		
33.5	116249 05/05/93 10:20	N/A		6	(10YR,4/3) BROWN, CLAYEY SILT WITH COARSE SAND, SLIGHT PLASTICITY, MOIST	N/A	N/A		
34.0	116252 05/05/93 09:30	4		6	STIFF, (2.5Y,4/2) DARK GRAYISH BROWN, SILTY CLAY WITH FLYASH, LOW PLASTICITY, MOIST	CL	1	PID=0 ppm BT=60 cpm	
34.5	116252 05/05/93 09:30	6		6	SAA	N/A CL	N/A 1	PID=0 ppm BT=60 cpm	
35.0	116252 05/05/93 09:30	8		6	MEDIUM DENSE, (10YR,4/3) BROWN, CLAYEY SILT WITH GRAVEL, SLIGHT PLASTICITY, MOIST	N/A ML	N/A	PID=0 ppm BT=60 cpm	
35.5	116253 116254 05/05/93 09:30	9		6	SAA	ML	N/A	PID=0 ppm BT=60 cpm	
36.0									
NOTES:									
Driller: JOE RAAB Drilling Equipment: HOLLOW STEM AUGER									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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Driller: JOE RAAB
Drilling Equipment: HOLLOW STEM AUGER

SAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

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PROJECT NUMBER: WBS 20.03.05					PROJECT NAME:				
BORING NUMBER: 1998					COORDINATES: NORTH 478091.60 EAST 1379032.88			DATE: 27-APR-93	
GROUND ELEVATION: 569.5					GWL: Depth	Date/Time		DATE STARTED: 27-APR-93	
ENGINEER/GEOLOGIST: DEBES/BOYER					Depth	Date/Time		DATE COMPLETE: 27-APR-93	
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E E	T I M E S O N	B L O W S P L E	R E C O V E R Y	I N C H E S E	U S Y S M C B S O L	T S F	REMARKS
.5	112040 04/27/93 16:05	7	6		BLACK, (2.5Y, 2.5/1) SILTY SAND, LOW PLASTICITY, DRY		SM	N/A	PID=0 ppm BT=120 cpm
.5	112042 116073 116075 04/28/93 08:40	8	6		BLACK, (2.5Y, 2.5/1) SILTY SAND, LOW PLASTICITY, DRY		SM	N/A	PID=0.3 ppm BT=60 cpm
.5 1.0	112040 04/27/93 16:05	9	6		BLACK, (2.5Y, 2.5/1) FLYASH		N/A	N/A	PID=0 ppm BT=120 cpm
.5 1.0	112042 116073 116075 04/28/93 08:40	7	6		BLACK (2.5Y 2.5/1) FLYASH		N/A	N/A	PID=0.3 ppm BT=60 cpm
1.0 1.5	112040 04/27/93 16:05	14	6		SAA		N/A	N/A	PID=0 ppm BT=120 cpm
1.0 1.5	116075 112042 116073 04/28/93 08:40	14	6		SAA		N/A	N/A	PID=0.3 ppm BT=60 cpm
1.5 2.0	112040 04/27/93 16:05	25	6		SAA		N/A	N/A	PID=0 ppm BT=120 cpm
1.5 2.0	112043 112044 04/28/93 08:40	18	6		SAA		N/A	N/A	PID=0.3 ppm BT=60 cpm
2.0 2.5	112041 04/27/93 16:30	N/A	6		SHELBY TUBE		N/A	N/A	
2.0 2.5	112045 116074 04/28/93 09:05	5	6		SAA		N/A	N/A	PID=0.5 ppm BT=80 cpm
2.5 3.0	112041 04/27/93 16:30	N/A	6		SHELBY TUBE		N/A	N/A	
NOTES:									
Driller: JOE RAAB Drilling Equipment: CME-45									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: WBS 20.03.05						PROJECT NAME:			
BORING NUMBER: 1998			COORDINATES: NORTH 478091.60 EAST 1379032.88				DATE: 27-APR-93		
GROUND ELEVATION: 569.5			GWL: Depth		Date/Time		DATE STARTED: 27-APR-93		
ENGINEER/GEOLOGIST: DEBES/BOYER			Depth		Date/Time		DATE COMPLETE: 27-APR-93		
DRILLING METHOD: HOLLOW STEM AUGER									
DEPTH	SAMPLE	SET TIME	BORING	SAMPLE	RECOVERY	INCHES	SYMBOL	TSF	REMARKS
2.5 3.0	112045 116074 04/28/93 09:05	5	5	6	SAA		N/A	N/A	PID=0.5 ppm BT=80 cpm
3.0 3.5	112041 116074 04/27/93 16:30	N/A	6	SHELBY TUBE			N/A	N/A	
3.0 3.5	112045 116074 04/28/93 09:05	5	5	6	SAA		N/A	N/A	PID=0.5 ppm BT=80 cpm
3.5 4.0	112041 116074 04/27/93 16:30	N/A	6	SHELBY TUBE			N/A	N/A	
3.5 4.0	112046 112047 04/28/93 09:05	5	5	6	VERY STIFF, YELLOWISH BROWN, (10YR, 5/4) SILTY CLAY, LOW PLASTICITY, DRY		CL	2.5	PID=0.5 ppm BT=80 cpm
4.0 4.5	112048 04/28/93 09:30	3	3	6	BLACK, (2.5Y, 2.5Y) SILTY SAND, LOW PLASTICITY, DRY		SM	N/A	PID=0.6 ppm BT=80 cpm
4.5 5.0	112048 04/28/93 09:30	3	3	6	BLACK, (2.5Y, 2.5/1) FLYASH		N/A	N/A	PID=0.6 ppm BT=80 cpm
5.0 5.5	112048 04/28/93 09:30	N/A	6	6	STIFF, YELLOWISH BROWN, (10YR, 5/4), SILTY CLAY WITH ROOTS AND WOOD FRAGMENTS, LOW PLASTICITY, DRY		N/A CL	N/A 1.7	PID=0.6 ppm BT=80 cpm
5.5 6.0	112049 112050 04/28/93 09:30	14	14	6	SAA		CL	1.75	PID=0.6 ppm BT=80 cpm
6.0 6.5	112051 04/28/93 09:50	5	5	6	BLACK, (2.5Y, 2.5/1), FLYASH, WET		N/A	N/A	PID=0.6 ppm BT=80 cpm
6.5 7.0	112051 04/28/93 09:50	17	17	6	HARD, LIGHT YELLOWISH BROWN, (10YR, 6/4) AND GRAY (10YR, 7/2) SILTY CLAY, MEDIUM PLASTICITY, SLIGHT MOIST		N/A CL	N/A 3.5	PID=0.6 ppm BT=80 cpm
7.0 7.5	112051 04/28/93 09:50	22	22	6	SAA		N/A CL	N/A 3.5	PID=0.6 ppm BT=80 cpm
NOTES:									
Driller: JOE RAAB Drilling Equipment: CME-45									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: WBS 20.03.05					PROJECT NAME:											
BORING NUMBER: 1998					COORDINATES: NORTH 478091.60 EAST 1379032.88			DATE:27-APR-93								
GROUND ELEVATION: 569.5					GWL: Depth	Date/Time		DATE STARTED: 27-APR-93								
ENGINEER/GEOLOGIST: DEBES/BOYER					Depth	Date/Time		DATE COMPLETE: 27-APR-93								
DRILLING METHOD: HOLLOW STEM AUGER																
D E P T H	S A M P L E	D A T E E E	T I M E E E	B L O W L E N O N	S A M P L E E E	R E C O V E R Y	I N C H E S	U S Y M C B S O L	T S F	REMARKS						
7.5 8.0	112052 112053 04/28/93 09:50	28		6	SAA					CL	3.5	PID=0.6 ppm BT=80 cpm				
8.0 8.5	112054 04/28/93 10:55	8		6	BLACK, (2.5Y, 2.5/1), FLYASH, MOIST					N/A	N/A	PID=0.5 ppm BT=60 cpm				
8.5 9.0	112054 04/28/93 10:55	6		6	VERY STIFF, LIGHT YELLOWISH BROWN, (10YR, 6/4), SILTY CLAY, LOW PLASTICITY, DRY					N/A CL	N/A 2.5	PID=0.5 ppm BT=60 cpm				
9.0 9.5	112054 04/28/93 10:55	8		6	BLACK, (2.5Y, 2.5/1), FLYASH, WET					N/A	N/A	PID=0.5 ppm BT=60 cpm				
9.5 10.0	112055 112056 04/28/93 10:55	14		6	VERY STIFF, GRAY, (10YR, 6/1) SILTY CLAY WITH IRON STRINGERS AND GRAVEL, LOW PLASTICITY, DRY					CL	3	PID=0.5 ppm BT=60 cpm				
10.0 10.5	112057 04/28/93 13:30	3		6	MEDIUM STIFF, LIGHT BROWNISH GRAY, (10YR, 6/2), SILTY CLAY, MEDIUM PLASTICITY, DRY					CL	1.5	PID=0.3 ppm BT=60 cpm				
10.5 11.0	112057 04/28/93 13:30	6		6	SAA					N/A CL	N/A 1.5	PID=0.3 ppm BT=60 cpm				
11.0 11.5	112057 04/28/93 13:30	12		6	LIGHT OLIVE BROWN, (2.5Y, 5/4), WELL GRADED, GRAVELLEY SAND, WET					N/A SW	N/A	PID=0.3 ppm BT=60 cpm				
11.5 12.0	112058 112059 04/28/93 13:30	17		6	HARD, LIGHT OLIVE BROWN, (2.5Y, 5/4), SILTY CLAY WITH PEA GRAVEL, LOW PLASTICITY, DRY					CL	3.5	PID=0.3 ppm BT=60 cpm				
12.0 12.5	112060 04/28/93 13:55	4		6	LIGHT OLIVE BROWN, (2.5Y 5/4), POORLY GRADED GRAVELLEY SAND, WET					SP	N/A	PID=0.5 ppm BT=60 cpm				
12.5 13.0	112060 04/28/93 13:55	10		6	STIFF, GRAY, (2.5Y, 5/1), SILTY CLAY WITH PEA GRAVEL, DRY					N/A CL	N/A 3.5	PID=0.5 ppm BT=60 cpm				
13.0 13.5	112060 04/28/93 13:55	17		6	SAA					N/A CL	N/A 3.5	PID=0.5 ppm BT=60 cpm				
NOTES:										Driller: JOE RAAB Drilling Equipment: CME-45						
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable						

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PROJECT NUMBER: WBS 20.03.05					PROJECT NAME:					
BORING NUMBER: 1998					COORDINATES: NORTH 478091.60 EAST 1379032.88			DATE: 27-APR-93		
GROUND ELEVATION: 569.5					GWL: Depth	Date/Time		DATE STARTED: 27-APR-93		
ENGINEER/GEOLOGIST: DEBES/BOYER					Depth	Date/Time		DATE COMPLETE: 27-APR-93		
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E E	B L O W S O N	S T I M E E V E R Y	R E C O V E R Y	I N C H E S		S U S M C B S O L	T S F	REMARKS
13.5	112061 112062 04/28/93 13:55	20		6	SAA			CL	3.5	PID=0.5 ppm BI=60 cpm
14.0	112063 04/28/93 14:10	3		6	STIFF, GRAY, (2.5Y, 5/1), SILTY CLAY WITH PEA GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST			CL	3	PID=0.5 ppm BI=60 cpm
14.5	112063 04/28/93 14:10	5		6	SAA			N/A CL	N/A 3	PID=0.5 ppm BI=60 cpm
15.0	112063 04/28/93 14:10	12		6	STIFF, GRAY, (2.5Y, 5/1), SILTY CLAY WITH PEA GRAVEL, MEDIUM PLASTICITY, SLIGHT MOIST			N/A CL	N/A 3	PID=0.5 ppm BI=60 cpm
15.5	112063 04/28/93 14:10	14		3	GRAY, (2.5Y, 5/1), POORLY GRADED SAND, MOIST			SP	N/A	PID=0.5 ppm BI=60 cpm
16.0	112064 04/28/93 14:30	N/A		6	SHELBY TUBE			N/A	N/A	
16.5	112064 04/28/93 14:30	N/A		6	SHELBY TUBE			N/A	N/A	
17.0	112065 04/28/93 15:24	50		6	HARD, GRAY, (2.5Y, 5/1), SILTY CLAY WITH PEA GRAVEL, LOW PLASTICITY, DRY (HARD PAN)			CL	4	PID=0.5 ppm BI=60 cpm
17.5	112065 04/28/93 15:24	50		6	SAA			N/A CL	N/A 4	PID=0.5 ppm BI=60 cpm
18.0	112065 04/28/93 15:24	50		6	SAA			N/A CL	N/A 4	PID=0.5 ppm BI=60 cpm
18.5	112066 112067 04/28/93 15:24	50		6	SAA			CL	4	PID=0.5 ppm BI=60 cpm
19.0	112066 112067 04/28/93 15:24	50		6						

NOTES:

Driller: JOE RAAB
Drilling Equipment: CME-45SAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1999					COORDINATES: NORTH 478059.27 EAST 1379040.99			DATE: 19-APR-93	
GROUND ELEVATION: 569.1					GWL: Depth	Date/Time	DATE STARTED: 19-APR-93		
ENGINEER/GEOLOGIST: A COMO					Depth	Date/Time	DATE COMPLETE: 19-APR-93		
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E E	B L O W L E N O	S A M P L E R E V E Y	R E C O V E R I N C H E S		S Y S M C B S O L	T S F	REMARKS
.5	111897 04/19/93 08:30	7	6	MEDIUM DENSE, (2.5YR, 5/0) BLACK, GRITTY SILT-LIKE MATERIAL, (BLACK ASH), DRY			N/A	N/A	PID=.6 ppm BT=30-40 cpm
.5 1.0	111898 04/19/93 08:30	8	6	SAA			N/A	N/A	PID=.6 ppm BT=30-40 cpm
1.0 1.5	111899 04/19/93 08:30	7	3	SAA			N/A	N/A	PID=.6 ppm BT=30-40 cpm
1.5 2.0	111900 04/19/93 08:35	7	6	SAA			N/A	N/A	PID=.6 ppm BT=20-30 cpm
2.0 2.5	111901 04/19/93 08:35	9	6	SAA			N/A	N/A	PID=.6 ppm BT=20-30 cpm
2.5 3.0	111902 04/19/93 08:35	9	6	SAA			N/A	N/A	PID=.6 ppm BT=20-30 cpm
3.0 3.5	111903 04/19/93 08:40	7	6	SAA			N/A	N/A	PID=.6 ppm BT=20-30 cpm
3.5 3.8	111904 04/19/93 08:40	12	3	SAA			N/A	N/A	PID=.6 ppm BT=20-30 cpm
3.8 4.0	111904 04/19/93 08:40	12	3	HARD, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, DRY			CL	4.5	PID=.6 ppm BT=20-30 cpm
4.0 4.5	111905 04/19/93 08:40	22	6	SAA			N/A	N/A	PID=.6 ppm BT=20-30 cpm
4.5 5.0	111906 04/19/93 08:45	7	6	SAA			N/A	N/A	PID=.6 ppm BT=20-30 cpm
5.0 5.5	111907 04/19/93 08:45	12	6	VERY STIFF, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, DRY			CL	2.5	PID=.6 ppm BT=20-30 cpm
5.5 6.0	111908 04/19/93 08:45	8	6	SAA			CL	3.25	PID=.6 ppm BT=20-30 cpm
<p>NOTES: BACKGROUND: HNU=0.6PPM, BETA GAMMA=20-40CPM</p> <p>Driller: D SMITH Drilling Equipment: MOBILE B-80</p> <p>SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable</p>									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1999					COORDINATES: NORTH 478059.27 EAST 1379040.99			DATE: 19-APR-93	
GROUND ELEVATION: 569.1					GWL: Depth	Date/Time		DATE STARTED: 19-APR-93	
ENGINEER/GEOLOGIST: A COMO					Depth	Date/Time		DATE COMPLETE: 19-APR-93	
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E E	B L O W S A M P L E O N	S A M P L E R E C O V E R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS
6.0	111909 04/19/93 08:50	8		6	SAA		CL	3.25	PID=.6 ppm BI=20-30 cpm
6.5	111910 04/19/93 08:50	10		6	SAA, MOIST		CL	3.00	PID=0.6 ppm BI=20-30 cpm
7.0	04/19/93 08:50	12		0	NO RECOVERY		N/A	N/A	
7.5	111911 04/19/93 08:55	8		6	MEDIUM DENSE, (10YR, 4/4) DARK YELLOWISH BROWN, CLAYEY SILT, SOME BLACK ASH, LOW PLASTICITY, WET		ML	N/A	PID=0.6 ppm BI=20-30 cpm
8.0	111912 04/19/93 08:55	12		6	SAA, WITH SOME SAND, WELL GRADED, WET		ML	N/A	PID=0.6 ppm BI=20-30 cpm
8.5	111913 04/19/93 08:55	10		6	SAA		ML	N/A	PID=0.6 ppm BI=20-30 cpm
9.0	111914 04/19/93 09:00	12		6	SAA		ML	N/A	PID=0.6 ppm BI=10-20 cpm
9.5	111915 04/19/93 09:00	16		6	HARD, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, MOIST		CL	4.75	PID=0.6 ppm BI=10-20 cpm
10.0	111916 04/19/93 09:00	15		6	HARD, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, SOME GRAVEL, LOW PLASTICITY, MOIST		CL	4.5	PID=0.6 ppm BI=10-20 cpm
10.5	111917 04/19/93 09:05	18		6	SAA		CL	3.25	PID=0.6 ppm BI=20-30 cpm
11.0	111918 04/19/93 09:05	12		6	VERY STIFF, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY, SOME GRAVEL, LOW PLASTICITY, DRY		CL	3.5	PID=0.6 ppm BI=20-30 cpm
11.5	111919 04/19/93 09:05	18		6	HARD, (2.5Y, 5/3) LIGHT OLIVE BROWN, SILTY CLAY WITH SOME (5Y, 6/1) GRAY, SILTY CLAY, GRAVEL, LOW PLASTICITY, DRY		CL	4.25	PID=0.6 ppm BI=20-30 cpm
12.0	111920 04/19/93 15:50	12		6	SAA		CL	1.0	PID=0.6 ppm BI=30-40 cpm
NOTES: BACKGROUND: HNU=0.6PPM, BETA GAMMA=20-40CPM									
Driller: D SMITH Drilling Equipment: MOBILE B-80									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1999				COORDINATES: NORTH 478059.27 EAST 1379040.99				DATE: 19-APR-93	
GROUND ELEVATION: 569.1				GWL: Depth	Date/Time		DATE STARTED: 19-APR-93		
ENGINEER/GEOLOGIST: A COMO				Depth	Date/Time		DATE COMPLETE: 19-APR-93		
DRILLING METHOD: HOLLOW STEM AUGER									
DEPTH	SAMPLE	ADDITIONAL TIME	BLOW COUNT	RECOVERY	INCHES		SUSPENDED SAMPLER	TSF	REMARKS
12.5	111921 04/19/93 15:50	9	6	SAA			CL	1.0	PID=0.6 ppm BT=30-40 cpm
13.0	04/19/93 00:00	13	0	NO RECOVERY			N/A	N/A	
NOTES: BACKGROUND: HNU=0.6PPM, BETA GAMMA=20-40CPM									
Driller: D SMITH Drilling Equipment: MOBILE B-80 SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION								
BORING NUMBER: 11008					COORDINATES: NORTH 478026.26 EAST 1378945.73								
GROUND ELEVATION: 577.8					GWL: Depth	Date/Time			DATE STARTED: 03-MAY-93				
ENGINEER/GEOLOGIST: D O'BRIEN					Depth	Date/Time			DATE COMPLETE: 03-MAY-93				
DRILLING METHOD: HOLLOW STEM AUGER													
D E P T H	S A M P L E	D A T E E E	B L O W S A M P L E O N	T I M E E E R Y	R E C O V E R Y	I N C H E S	S U S M C B S O L	T S F	REMARKS				
.5	116123 05/02/93 10:15	2		6	VERY LOOSE BLACK FLYASH WITH ORGANICS DRY			N/A	N/A	PID=0 ppm BT=40 cpm			
.5 1.0	05/02/93 10:16	2		0	NO RECOVERY			N/A	N/A				
1.0 1.5	05/02/93 10:16	2		0	NO RECOVERY			N/A	N/A				
1.5 2.0	116124 05/02/93 10:17	2		6	LOOSE, BLACK FLYASH WITH ORGANICS, DRY			N/A	N/A	PID=0 ppm BT=60 cpm			
2.0 2.5	116125 05/02/93 10:17	3		5	SAA			N/A	N/A	PID=0 ppm BT=60 cpm			
2.5 3.0	05/02/93 10:17	3		0	NO RECOVERY			N/A	N/A				
3.0 3.5	116126 05/02/93 10:20	3		6	LOOSE, BLACK FLYASH WITH GRAVEL AND ORGANICS, DRY			N/A	N/A	PID=0 ppm BT=60 cpm			
3.5 4.0	116127 05/02/93 10:20	4		4	SAA			N/A	N/A	PID=0 ppm BT=60 cpm			
4.0 4.5	05/02/93 10:20	4		0	NO RECOVERY			N/A	N/A				
4.5 5.0	116128 05/02/93 10:30	2		6	VERY LOOSE BLACK FLYASH, DRY			N/A	N/A	PID=0 ppm BT=60 cpm			
5.0 5.5	116129 05/02/93 10:30	2		6	SAA			N/A	N/A	PID=0 ppm BT=60 cpm			
5.5 6.0	116130 05/02/93 10:30	2		4	SAA			N/A	N/A	PID=0 ppm BT=60 cpm			
6.0 6.5	116131 05/02/93 10:40	1		6	VERY LOOSE BLACK FLYASH WITH ORGANICS, DRY			N/A	N/A	PID=0 ppm BT=60 cpm			
NOTES:										Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: MARTY WATRAL, BILL SEBERT Drilling Equipment: ACKER SENTRY			
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable			

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11008					COORDINATES: NORTH 478026.26 EAST 1378945.73 DATE: 02-MAY-93					
GROUND ELEVATION: 577.8					GWL: Depth Date/Time			DATE STARTED: 03-MAY-93		
ENGINEER/GEOLOGIST: D O'BRIEN					Depth Date/Time			DATE COMPLETE: 03-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER										
DEPTH	SAMPLE	DATE	BLOWS	TIME	RECOVERY	SAMPLE	RECOVERIES	SYNTHETIC URINE SAMPLES	TEST SOIL	REMARKS
6.5	116132 05/02/93 10:40	2	6		SAA			N/A	N/A	PID=0 ppm BT=60 cpm
7.0	05/02/93 10:40	2	0		NO RECOVERY			N/A	N/A	
7.5	116133 05/02/93 10:45	2	6		VERY LOOSE BLACK FLYASH WITH ORGANICS, DRY			N/A	N/A	PID=0 ppm BT=80 cpm
8.0	116134 05/02/93 10:45	2	6		SAA			N/A	N/A	PID=0 ppm BT=80 cpm
8.5	05/02/93 10:45	2	0		NO RECOVERY			N/A	N/A	
9.0	116135 05/02/93 10:50	1	6		VERY LOOSE BLACK FLYASH, DRY			N/A	N/A	PID=0 ppm BT=100 cpm
9.5	116136 05/02/93 10:50	2	4		SAA			N/A	N/A	PID=0 ppm BT=100 cpm
10.0	05/02/93 10:50	2	0		NO RECOVERY			N/A	N/A	
10.5	116137 05/02/93 10:55	1	6		VERY LOOSE, BLACK FLYASH, DRY			N/A	N/A	PID=0 ppm BT=60 cpm
11.0	116138 05/02/93 10:55	2	6		SAA			N/A	N/A	PID=0 ppm BT=60 cpm
11.5	05/02/93 10:55	2	0		NO RECOVERY			N/A	N/A	
12.0	116139 05/02/93 11:05	1	6		VERY LOOSE BLACK FLYASH, DRY			N/A	N/A	PID=0 ppm BT=40 cpm
12.5	116140 05/02/93 11:05	2	6		SAA			N/A	N/A	PID=0 ppm BT=40 cpm
NOTES:										Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: MARTY WATRAL, BILL SEBERT Drilling Equipment: ACKER SENTRY
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11008					COORDINATES: NORTH 478026.26 EAST 1378945.73				
GROUND ELEVATION: 577.8					GWL: Depth	Date/Time			DATE STARTED: 03-MAY-93
ENGINEER/GEOLOGIST: D O'BRIEN					Depth	Date/Time			DATE COMPLETE: 03-MAY-93
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E E	B L O W S P E N O R	R E C O V E R Y	I N C H E S		S U S C B S O L	T S F	REMARKS
13.0	116141 05/02/93 11:05	2	6	SAA			N/A	N/A	PID=0 ppm BT=40 cpm
13.5	116142 05/02/93 13:15	1	6	SAA			N/A	N/A	PID=0 ppm BT=40 cpm
14.0	116143 05/02/93 13:15	1	6	SAA			N/A	N/A	PID=0 ppm BT=40 cpm
14.5	05/02/93 13:15	1	0	NO RECOVERY			N/A	N/A	
15.0	116144 05/02/93 13:20	1	6	VERY LOOSE BLACK FLYASH, DRY			N/A	N/A	PID=0 ppm BT=40 cpm
15.5	116145 05/02/93 13:20	1	6	SAA			N/A	N/A	PID=0 ppm BT=40 cpm
16.0	116146 05/02/93 13:20	2	3	SAA			N/A	N/A	PID=0 ppm BT=40 cpm
16.5	116147 05/02/93 13:25	1	6	SAA			N/A	N/A	PID=0 ppm BT=60 cpm
17.0	116148 05/02/93 13:25	2	6	SAA			N/A	N/A	PID=0 ppm BT=60 cpm
17.5	116149 05/02/93 13:25	3	6	FIRST 3", SAA (LAST 3") HARD (2.5Y, 5/6) LIGHT OLIVE BROWN GRAVELLY CLAY, NO PLASTICITY, DRY			CL	4	PID=0 ppm BT=60 cpm
18.0	116150 05/02/93 13:40	10	6	VERY STIFF (2.5Y, 4/4) OLIVE BROWN GRAVELLY CLAY, NO PLASTICITY, SLIGHTLY MOIST			CL	2.5	PID=0 ppm BT=40 cpm
18.5	116151 05/02/93 13:40	12	5	HARD (2.5Y, 5/6) LIGHT, OLIVE BROWN CLAY WITH FINE SAND AND GRAVEL, NO PLASTICITY, DRY			CL	4.5	PID=0 ppm BT=40 cpm
19.0	05/02/93 13:45	15	0	NO RECOVERY			N/A	N/A	

NOTES:

Boring Contractor: PENNSYLVANIA DRILLING CO.
Driller: MARTY WATRAL, BILL SEBERT
Drilling Equipment: ACKER SENTRY

SAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION							
BORING NUMBER: 11008					COORDINATES: NORTH 478026.26 EAST 1378945.73							
GROUND ELEVATION: 577.8					GWL: Depth	Date/Time		DATE STARTED: 03-MAY-93				
ENGINEER/GEOLOGIST: D O'BRIEN					Depth	Date/Time		DATE COMPLETE: 03-MAY-93				
DRILLING METHOD: HOLLOW STEM AUGER												
D E P T H	S A D T L E E	B L O W S P L E O N	R E C O M P L E R Y	I N C H E E S		S U Y S M C B S O L	T S F	REMARKS				
19.5	116152 05/02/93 13:50	7	6	VERY STIFF (2.5Y, 6/6) OLIVE YELLOW SILTY CLAY WITH FINE SAND, NO PLASTICITY, DRY			CL	2	PID=0 ppm BT=40 cpm			
20.0	116153 05/02/93 13:50	9	5	VERY STIFF (2.5Y, 5/3) LIGHT, OLIVE BROWN SILTY CLAY WITH GRAVEL, NO PLASTICITY, GRADING MOIST TO DRY			CL	3	PID=0 ppm BT=40 cpm			
20.5	05/02/93 13:50	17	0	NO RECOVERY			N/A	N/A				
21.0	116154 05/02/93 14:00	3	6	VERY STIFF (2.5Y, 5/3) LIGHT OLIVE BROWN, GRAVELLY CLAY WITH SAND, NO PLASTICITY, DRY			CL	3	PID=0 ppm BT=60 cpm			
21.5	116155 05/02/93 14:00	10	6	MEDIUM DENSE (2.5Y, 5/6) LIGHT OLIVE BROWN, MEDIUM TO COARSE GRAINED SAND, POORLY GRADED, DRY			SP	N/A	PID=0 ppm BT=60 cpm			
22.0	05/02/93 14:00	11	0	NO RECOVERY			N/A	N/A				
NOTES:												
Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: MARTY WATRAL, BILL SEBERT Drilling Equipment: ACKER SENTRY SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable												

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 11047				COORDINATES: NORTH 478314.61 EAST 1378995.55				DATE: 16-MAY-93		
GROUND ELEVATION: 566.2				GWL: Depth Date/Time				DATE STARTED: 16-MAY-93		
ENGINEER/GEOLOGIST: J BOYER				Depth Date/Time				DATE COMPLETE: 16-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E E E	B L O W S O N	S A M P L E R E C O V E R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS	
4.0	05/16/93 08:30	N/A	N/A	DESTRUCTIVE DRILLING				N/A	N/A	
4.0 5.5	116316 05/16/93 08:50	10 13 11	15	MEDIUM DENSE (2.5Y, 5/4) CLAYEY SILT, LOW PLASTICITY, MOIST				ML	N/A	PID=.8 ppm BI=40 cpm
5.5 7.0	05/16/93 09:00	6 7 9	18	MEDIUM DENSE (2.5Y, 4.4) OLIVE BROWN, CLAYEY SILT, LOW PLASTICITY				ML	N/A	PID=.8 ppm BI=40 cpm
7.0 8.0	116317 05/16/93 09:15	7 5 8	14	MEDIUM DENSE (2.5Y, 5/3) LIGHT OLIVE BROWN, SILTY SAND, MOIST				SM	N/A	PID=.8 ppm BI=40 cpm
8.0 8.5	116317 05/16/93 09:15	N/A	N/A	MEDIUM DENSE (2.5Y, 5/6) LIGHT OLIVE BROWN, POORLY GRADED SAND, WET				SP	N/A	PID=.8 ppm BI=40 cpm
8.5 10.0	05/16/93 10:00	7 6 19	N/A	NO RECOVERY				N/A	N/A	
10.0 12.0	116318 05/16/93 10:15	N/A	N/A	HYDROPUNCH				N/A	N/A	
NOTES:										Driller: JOE RAAB, ROGER DAVIS
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

1200000

E-19-45

000382

02/02/94 16:35

PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11048					COORDINATES: NORTH 478159.21 EAST 1378974.60			DATE: 21-MAY-93	
GROUND ELEVATION: 577.5					GWL: Depth	Date/Time		DATE STARTED: 21-MAY-93	
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 26-MAY-93	
DRILLING METHOD: HOLLOW STEM AUGER									
DEPTH	SAMPLE	DATE	BLOW COUNT	RECOVERY			SYMBOL	TYPE	REMARKS
							S Y S M C B S O L		
.5	05/25/93 13:45	6	6	DENSE, (2.5Y, 5/6) LIGHT OLIVE BROWN, CLAYEY SILT, WITH GRAVEL, SLIGHTLY PLASTIC, DRY			ML	N/A	PID=.4 ppm BT=80 cpm
.5 1.0	05/25/93 00:00	11	6	SAA			ML	N/A	PID=.4 ppm BT=80 cpm
1.0 1.5	116342 05/25/93 13:45	13	6	DENSE, (2.5Y, 5/6) LIGHT OLIVE BROWN, CLAYEY SILT, 50% GRAVEL, (1200 CPM ON FRISHER) NO PLASTICITY, DRY			ML GC	N/A	PID=.4 ppm BT=1200 cpm
1.5 2.0	05/25/93 00:00	24	5	(10YR, 21) BLACK, FLYASH WITH GRAVEL, DRY			N/A	N/A	PID=.4 ppm BT=80 cpm
2.0 2.5	05/25/93 00:00	5	6	VERY STIFF, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY WITH FLYASH AND GRAVEL, LOW PLASTICITY, DRY			CL	3.5	PID=1 ppm BT=100 cpm
2.5 3.0	05/25/93 00:00	6	6	SAA			CL	3	PID=1 ppm BT=100 cpm
3.0 3.5	05/25/93 00:00	6	6	VERY STIFF, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY WITH GRAVEL AND FLYASH STRINGER, LOW PLASTICITY, DRY			CL	2	PID=1 ppm BT=100 cpm
3.5 4.0	05/25/93 00:00	8	4	(10YR, 2/1) BLACK, FLYASH WITH GRAVEL, DRY			N/A	N/A	PID=1 ppm BT=100 cpm
4.0 4.5	05/25/93 00:00	9	6	STIFF, (2.5Y, 6/4) LIGHT YELLOWISH BROWN, SILTY CLAY WITH GRAVEL AND FLYASH, LOW PLASTICITY, DRY			CL	1	PID=1 ppm BT=80 cpm
4.5 5.0	05/25/93 00:00	11	6	SAA			CL	1	PID=1 ppm BT=80 cpm
5.0 5.5	05/25/93 00:00	11	6	(10YR, 2/1) BLACK, FLYASH, DRY			N/A	N/A	PID=1 ppm BT=80 cpm
5.5 6.0	05/25/93 00:00	13	5	SAA			N/A	N/A	PID=1 ppm BT=80 cpm
6.0 6.5	05/25/93 00:00	1	6	SAA			N/A	N/A	PID=1.5 ppm BT=80 cpm

NOTES:

Boring Contractor: PENNSYLVANIA DRILLING
 Driller: MIKE BENTLEY
 Drilling Equipment: ACKER

SAA = Same as Above
 PID = Photoionization Detector
 N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION										
BORING NUMBER: 11048					COORDINATES: NORTH 478159.21 EAST 1378974.60										
GROUND ELEVATION: 577.5					GWL: Depth	Date/Time		DATE STARTED: 21-MAY-93							
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 26-MAY-93							
DRILLING METHOD: HOLLOW STEM AUGER															
D E P T H	S A M P L E	D A T E E E	B L O W S O N	T I M E E E	R E C O V E R Y	I N C H E E S	S Y S M C B S O L	T S F	REMARKS						
6.5															
7.0		05/25/93 00:00		1		6		N/A	N/A	PID=1.5 ppm BT=80 cpm					
7.0		05/25/93 00:00		1		6		N/A	N/A	PID=1.5 ppm BT=80 cpm					
7.5		05/25/93 00:00		N/A		0		N/A	N/A						
8.0					NO RECOVERY										
8.0		05/25/93 00:00		2		6		N/A	N/A	PID=1.6 ppm BT=80 cpm					
8.5		05/25/93 00:00		3		6		N/A	N/A	PID=1.6 ppm BT=80 cpm					
9.0		05/25/93 00:00		3		6		N/A	N/A	PID=1.6 ppm BT=80 cpm					
9.5		05/25/93 00:00		6		5		N/A	N/A	PID=1.6 ppm BT=80 cpm					
10.0		05/25/93 00:00		1		6		N/A	N/A	PID=1.5 ppm BT=60 cpm					
10.5		05/25/93 00:00		2		6		N/A	N/A	PID=1.5 ppm BT=60 cpm					
11.0		05/25/93 00:00		4		6		N/A	N/A	PID=1.5 ppm BT=60 cpm					
11.5		05/25/93 00:00		13		3		CL	2.25	PID=1.5 ppm BT=60 cpm					
12.0		05/25/93 00:00		6		6		CL	2	PID=1.5 ppm BT=60 cpm					
12.5		05/25/93 00:00		9		6		CL	1.5	PID=1.5 ppm BT=60 cpm					
13.0		05/25/93 00:00			STIFF, (5Y, 5/3) OLIVE, SILTY CLAY, TRACE WOOD, (APPEARS TO BE ROOT MATERIAL, LOW PLASTICITY, MOIST										
NOTES:															
Boring Contractor: PENNSYLVANIA DRILLING Driller: MIKE BENTLEY Drilling Equipment: ACKER															
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable															

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11048					COORDINATES: NORTH 478159.21 EAST 1378974.60			DATE: 21-MAY-93	
GROUND ELEVATION: 577.5					GWL: Depth	Date/Time	DATE STARTED: 21-MAY-93		
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time	DATE COMPLETE: 26-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E E	B L O W S E N O	S A M P L E R E C O V E R Y	I N C H E S		S U S M C B S O L	T S F	REMARKS
13.0		05/25/93	9		6	SAA	CL	2	PID=1.5 ppm BT=60 cpm
13.5		00:00							
13.5		05/25/93	17		4	MEDIUM DENSE, (5Y, 5/2) OLIVE GRAY, SILT TRACE ROOT MATERIAL, MOIST	ML	N/A	PID=1.5 ppm BT=60 cpm
14.0		00:00							
14.0		05/25/93	8		6	MEDIUM DENSE, (5Y, 4/2) OLIVE GRAY, SILT WITH ROOT AND GRASS MATERIAL, MOIST	ML	N/A	PID=1.5 ppm BT=40 cpm
14.5		00:00							
15.0		05/25/93	11		6	SAA	ML	N/A	PID=1.5 ppm BT=40 cpm
15.0		00:00							
15.5		05/25/93	11		6	MEDIUM DENSE, (5Y, 4/2) OLIVE GRAY, SILT WITH ROOT AND GRASSES, MOIST	ML	N/A	PID=1.5 ppm BT=40 cpm
15.5		00:00							
15.5		05/25/93	10		6	SAA	ML	N/A	PID=1.5 ppm BT=40 cpm
16.0		00:00							
16.0		05/25/93	6		6	MEDIUM DENSE, (5Y, 4/2) OLIVE GRAY, CLAYEY SILT WITH ROOT AND GRASS MATERIAL, MOIST	ML	N/A	PID=1.6 ppm BT=40 cpm
16.5		00:00							
16.5		05/25/93	9		6	SAA	ML	N/A	PID=1.6 ppm BT=40 cpm
17.0		00:00							
17.0		05/25/93	9		6	SAA	ML	N/A	PID=1.6 ppm BT=40 cpm
17.5		00:00							
17.5		05/25/93	10		4	SAA	ML	N/A	PID=1.6 ppm BT=40 cpm
18.0		00:00							
18.0		05/25/93	3		6	MEDIUM DENSE, (5Y, 4/3) OLIVE, CLAYEY SILT WITH TRACE ORGANICS MATERIAL, ALSO CONTAINED BURNT WOOD, MOIST	ML	N/A	PID=2.2 ppm BT=60 cpm
18.5		00:00							
18.5		05/25/93	6		6	MEDIUM DENSE, (5Y, 4/3) OLIVE, CLAYEY SILT, TRACE ROOT MATERIAL, MOIST	ML	N/A	PID=2.2 ppm BT=60 cpm
19.0		00:00							
19.0		05/25/93	7		6	MEDIUM DENSE, (5Y, 4/2) OLIVE GRAY, CLAYEY SILT, SLIGHT PLASTICITY, MOIST	ML	N/A	PID=2.2 ppm BT=60 cpm
19.5		00:00							
NOTES:									
Boring Contractor: PENNSYLVANIA DRILLING Driller: MIKE BENTLEY Drilling Equipment: ACKER									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION								
BORING NUMBER: 11048					COORDINATES: NORTH 478159.21 EAST 1378974.60								
GROUND ELEVATION: 577.5					GWL: Depth	Date/Time		DATE STARTED: 21-MAY-93					
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 26-MAY-93					
DRILLING METHOD: HOLLOW STEM AUGER													
D E P T H	S A M P L E	D A T E E E	B L O W N E	S A M P L E	R E C O V E R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS			
19.5 20.0		05/25/93 00:00	10	5	SAA			ML	N/A	PID=2.2 ppm BT=60 cpm			
20.0 20.5		05/25/93 00:00	9	6	SAA			ML	N/A	PID=1.8 ppm BT=60 cpm			
20.5 21.0		05/25/93 00:00	9	6	SAA			ML	N/A	PID=1.8 ppm BT=60 cpm			
21.0 21.5	116343 116344 116345 116346 05/25/93 16:20		12	6	MEDIUM DENSE, (5Y, 4/3) OLIVE, SILTY SAND WITH CLAY, WET			SM	N/A	PID=1.8 ppm BT=60 cpm			
21.5 22.0	116343 116344 116345 116346 05/25/93 16:20		N/A 14	6	MEDIUM DENSE, (5YM 5.4) OLIVE, SILTY SAND, WET			SM	N/A	PID=1.8 ppm BT=60 cpm			
22.0 24.0	116351 05/25/93 10:15		N/A	N/A	HYDROPUCH			N/A	N/A				
24.0 24.5	05/25/93 00:00		50	5	HARD, (5Y, 4/2) OLIVE GRAY, SILTY CLAY, TRACE GRAVEL, LOW PLASTICITY, MOIST			CL	4.5	PID=.6 ppm BT=60 cpm			
24.5 25.0	05/25/93 00:00		80	0	NO RECOVERY			N/A	N/A				
25.0 25.5	05/25/93 12:00		N/A	0	SPLIT SPOON REFUSAL			N/A	N/A				
25.5 26.0	05/25/93 00:00		N/A	0	SPLIT SPOON REFUSAL			N/A	N/A				
26.0 26.5	116347 116348 116349 116350 05/25/93 14:40		8	6	VERY DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, POORLY GRADED SAND, MOIST			SP	N/A	PID=.5 ppm BT=40 cpm			
NOTES:										Boring Contractor: PENNSYLVANIA DRILLING Driller: MIKE BENTLEY Drilling Equipment: ACKER			
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable													

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11048				COORDINATES: NORTH 478159.21 EAST 1378974.60			DATE: 21-MAY-93		
GROUND ELEVATION: 577.5				GWL: Depth	Date/Time		DATE STARTED: 21-MAY-93		
ENGINEER/GEOLOGIST: J BOYER				Depth	Date/Time		DATE COMPLETE: 26-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E E	B L O W S E N	S A M P L E R Y	R E C O V E R Y	I N C H E S	S U S M C B S O L	T S F	REMARKS
26.5 27.0	116347 116348 116349 116350 05/25/93 14:40	19	6	SAA			SP	N/A	PID=.5 ppm BT=40 cpm
27.0 27.5	116347 116348 116349 116350 05/25/93 14:40	32	6	SAA			SP	N/A	PID=.5 ppm BT=40 cpm
27.5 28.0	05/25/93 00:00	34	0	NO RECOVERY			N/A	N/A	
NOTES:									
Boring Contractor: PENNSYLVANIA DRILLING Driller: MIKE BENTLEY Drilling Equipment: ACKER									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

January 21, 1995

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11049					COORDINATES: NORTH 478207.49 EAST 1379013.23				
GROUND ELEVATION: 567					GWL: Depth	Date/Time		DATE STARTED: 27-MAY-93	
ENGINEER/GEOLOGIST: T LAYNE, J BOYE					Depth	Date/Time		DATE COMPLETE: 28-MAY-93	
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E E	T M E S O N	B L O O R D E N E	R E C O V E R Y	I N C H E S	S U Y S M C B S O L	T S F	REMARKS
.5	05/27/93 00:00	4	6	(2.5Y, 4/2)	DARK GRAYISH BROWN, CLAYEY SILT, PLANT MATERIAL, DRY		ML	1.7	PID=0 ppm BI=20 cpm
.5 1.0	05/27/93 00:00	6	6	(2.5Y, 4/2)	DARK GRAYISH BROWN, CLAYEY SILT, PLANT MATERIAL, MOIST		ML	1.7	PID=0 ppm BI=20 cpm
1.0 1.5	05/27/93 00:00	8	6	(2.5Y, 5/4)	LIGHT OLIVE BROWN, SILTY CLAY, PLANT MATERIAL, MOIST		CL	2.25	PID=0 ppm BI=20 cpm
1.5 2.0	05/27/93 00:00	9	6	SAA			CL	2.25	PID=0 ppm BI=20 cpm
2.0 2.5	05/27/93 00:00	8	6	(2.5Y, 5/4)	LIGHT OLIVE BROWN, SILTY CLAY, MOIST		CL	2.75	PID=0 ppm BI=20-30 cpm
2.5 3.0	05/27/93 00:00	11	6	SAA			CL	1.35	PID=0 ppm BI=20-30 cpm
3.0 3.5	05/27/93 00:00	10	6	SAA			CL	.9	PID=0 ppm BI=20-30 cpm
3.5 4.0	05/27/93 00:00	13	6	(2.5Y, 5/4)	LIGHT OLIVE BROWN, SILTY CLAY, VERY MOIST		CL	.5	PID=0 ppm BI=20-30 cpm
4.0 4.5	05/27/93 00:00	3	6	(2.5Y, 5/4)	LIGHT OLIVE BROWN, SILTY CLAY, VERY MOIST		CL	0	PID=0 ppm BI=40 - 80 cpm
4.5 5.0	05/27/93 00:00	3	6	SAA			CL	0	PID=0 ppm BI=40 - 80 cpm
5.0 5.5	05/27/93 00:00	2	6	(2.5Y, 5/3)	LIGHT OLIVE BROWN, SILTY CLAY, WET		CL	0	PID=0 ppm BI=40 - 80 cpm
5.5 6.0	05/27/93 00:00	3	6	SAA			CL	0	PID=0 ppm BI=40 - 80 cpm
6.0 6.5	05/27/93 00:00	1	6	(2.5Y, 5/4)	LIGHT OLIVE BROWN, SILTY CLAY, MOIST TO WET		CL	0	PID=0 ppm BI=40 - 80 cpm

NOTES:

BACKGROUND: BETA GAMMA=40-80CPM/HNU=OPPM

Boring Contractor: PENNSYLVANIA DRILLING CO

SAA = Same as Above

PID = Photoionization Detector

N/A = Not Applicable

1880000

E-19-51

000388

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FEMP-OU02-6 FINAL

January 21, 1995

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11049					COORDINATES: NORTH 478207.49 EAST 1379013.23			DATE: 27-MAY-93	
GROUND ELEVATION: 567					GWL: Depth	Date/Time		DATE STARTED: 27-MAY-93	
ENGINEER/GEOLOGIST: T LAYNE, J BOYE					Depth	Date/Time		DATE COMPLETE: 28-MAY-93	
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E E	B L O W S P L E N	S T I M E E R Y	R E C O V E R Y	I N C H E S	S Y U S M C B S O L	T S F	REMARKS
6.5 7.0	116352 116353 116354 116355 05/27/93 00:00	2	6	SAA			CL	0	PID=0 ppm BT=40 - 80 cpm
7.0 7.5	116352 116353 116354 116355 05/27/93 16:30	2	6	(2.5Y, 5/4) LIGHT OLIVE BROWN, SAND CLAY, WET			CL	0	PID=0 ppm BT=40 - 80 cpm
7.5 8.0	116352 116353 116354 116355 05/27/93 16:30	10	6	(2.5Y, 5/4) LIGHT OLIVE BROWN, CLAYEY SAND, VERY WET			SC	0	PID=0 ppm BT=40 - 80 cpm
8.0 11.5	116356 05/28/93 09:30	N/A	N/A	HYDROPUNCH			N/A	N/A	
11.0 11.5	116357 116358 05/28/93 10:45	2	5.5	(2.5Y, 5/3) LIGHT OLIVE BROWN, CLAY, TRACE SMALL SUBROUNDED PEBBLES, WET			CL	0	PID=0 ppm BT=40 - 80 cpm
11.5 12.0	116359 116360 05/28/93 10:45	8	6	(2.5Y, 5/1) GRAY, CLAY TRACE SMALL SUB-ROUNDED PEBBLES, MOIST			CL	1.25	PID=0 ppm BT=86 cpm
12.0 12.5	116357 116358 116359 116360 05/28/93 00:00	28	5.5	(2.5Y, 5/1) GRAY CLAY, SAA			CL	0	PID=0 ppm BT=86 cpm
12.5 13.0	116357 116358 116359 116360 05/28/93 00:00	N/A	0	NO RECOVERY			N/A	N/A	
NOTES: BACKGROUND: BETA GAMMA=40-80CPM/HNU=OPPM					Boring Contractor: PENNSYLVANIA DRILLING CO				
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

E-19-52

000389

02/02/94 16:35

PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11050					COORDINATES: NORTH 478172.18 EAST 1378937.21			DATE: 03-JUN-93	
GROUND ELEVATION: 570					GWL: Depth	Date/Time	DATE STARTED: 03-JUN-93		
ENGINEER/GEOLOGIST: J REAGAN					Depth	Date/Time	DATE COMPLETE: 07-JUN-93		
DRILLING METHOD: HOLLOW STEM AUGER									
DEPTH	SAMPLE	DATE	BLOWS	RECOVERY	SYNTHETIC	MATERIAL	CORES	BORING	REMARKS
	E	E	E	E	S	M	C	B	S
	E	E	E	E	E	E	E	E	E
.5	06/03/93 00:00	2	6	BLACK FLYASH	N/A	N/A	PID=2 ppm BT=60 cpm		
.5 1.0	06/03/93 00:00	2	4	10YR, 2/1, DRY	N/A	N/A	PID=2.0 ppm BT=60 cpm		
1.0 1.5	06/03/93 00:00	2	0	NO RECOVERY (INFERRED FROM BORING LOG)	N/A	N/A			
1.5 2.0	06/03/93 00:00	2	0	NO RECOVERY (INFERRED FROM BORING LOG)	N/A	N/A			
2.0 2.5	06/03/93 00:00	2	6	(10YR, 2/1), DRY	N/A	N/A	PID=1.5 ppm BT=60 cpm		
2.5 3.0	06/03/93 00:00	1	6	SAA	N/A	N/A	PID=1.5 ppm BT=60 cpm		
3.0 3.5	06/03/93 00:00	1	2	SAA	N/A	N/A	PID=1.5 ppm BT=60 cpm		
3.5 4.0	06/03/93 00:00	3	0	NO RECOVERY (INFERRED FROM BORING LOG)	N/A	N/A			
4.0 4.5	06/03/93 00:00	1	6	(10YR, 2/1), DRY	N/A	N/A	PID=1.5 ppm BT=80 cpm		
4.5 5.0	06/03/93 00:00	1	2	SAA	N/A	N/A	PID=1.5 ppm BT=80 cpm		
5.0 5.5	06/03/93 00:00	1	0	NO RECOVERY (INFERRED FROM BORING LOG)	N/A	N/A			
5.5 6.0	06/03/93 00:00	1	0	NO RECOVERY (INFERRED FROM BORING LOG)	N/A	N/A			
6.0 6.5	06/03/93 00:00	3	6	(10YR, 2/1) DRY	N/A	N/A	PID=1.5 ppm BT=80 cpm		
NOTES:									
Boring Contractor: PENNSYLVANIA DRILLING Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: ACKER SOIL SENTRY									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 11050			COORDINATES: NORTH 478172.18 EAST 1378937.21					DATE: 03-JUN-93			
GROUND ELEVATION: 570			GWL: Depth Date/Time			DATE STARTED: 03-JUN-93					
ENGINEER/GEOLOGIST: J REAGAN			Depth Date/Time			DATE COMPLETE: 07-JUN-93					
DRILLING METHOD: HOLLOW STEM AUGER											
DEPTH	SAMPLE	SALE TIME	BLOWS	RECOVERY	INCHES		S	T	REMARKS		
							SY SM CB SO L	TS F			
6.5	06/03/93 00:00	5	6	VERY STIFF, (10YR, 5/4), SILTY CLAY			CL	2.0	PID=1.5 ppm BT=80 cpm		
7.0	06/03/93 00:00	11	6	LOW PLASTICITY, MOIST			CL	2.0	PID=1.5 ppm BT=80 cpm		
7.5	06/03/93 00:00	13	6	VERY STIFF, (10YR, 5/4), SILTY CLAY, LOW PLASTICITY, MOIST			CL	2.0	PID=1.5 ppm BT=80 cpm		
8.0	06/03/93 00:00	6	6	SAA			CL	2.5	PID=1.5 ppm BT=80 cpm		
8.5	06/03/93 00:00	9	0	NO RECOVERY (INFERRED FROM BORING LOG)			N/A	N/A			
9.0	06/03/93 00:00	11	0	NO RECOVERY (INFERRED FROM BORING LOG)			N/A	N/A			
9.5	06/03/93 00:00	19	0	NO RECOVERY (INFERRED FROM BORING LOG)			N/A	N/A			
10.0	116450 06/03/93 16:15	3	6	VERY STIFF, (10YR, 4/4) SILTY FINE SAND, LOW PLASTICITY, VERY MOIST			ML	2.0	PID=1.5 ppm BT=60-80 cpm		
10.5	116451 06/03/93 16:15	5	6	SAA			ML	2.0	PID=1.5 ppm BT=60-80 cpm		
11.0	116452 06/03/93 16:15	5	6	SAA			ML	2.0	PID=1.5 ppm BT=60-80 cpm		
11.5	116453 06/03/93 16:15	15	6	SAA			ML	2.0	PID=1.5 ppm BT=60-80 cpm		
12.0	06/03/93 00:00	5	6	SAA			ML	2.5	PID=1.5 ppm BT=60 cpm		
12.5	06/03/93 00:00	7	6	SAA			ML	2.5	PID=1.5 ppm BT=60 cpm		
13.0	06/03/93 00:00										

NOTES:

Boring Contractor: PENNSYLVANIA DRILLING
Driller: JOE RAB, ROGER DAVIS
Drilling Equipment: ACKER SOIL SENTRY

SAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11050					COORDINATES: NORTH 478172.18 EAST 1378937.21			DATE: 03-JUN-93		
GROUND ELEVATION: 570					GWL: Depth	Date/Time		DATE STARTED: 03-JUN-93		
ENGINEER/GEOLOGIST: J REAGAN					Depth	Date/Time		DATE COMPLETE: 07-JUN-93		
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E E E	B L O O L E	R A M P S P L E	E C O N R E V Y	I N C H E R E S	S Y M C B S O L	T S F	REMARKS	
13.0 13.5		06/03/93 00:00	15	6	VERY STIFF, (10YR, 5/1), SILTY CLAY, MEDIUM PLASTICITY, MOIST			CL	2.5	PID=1.5 ppm BT=60 cpm
13.5 14.0		06/03/93 00:00	17	6	SAA			CL	2.5	PID=1.5 ppm BT=60 cpm
14.0 14.5		06/03/93 00:00	5	0	NO RECOVERY			N/A	N/A	
14.5 15.0		06/03/93 00:00	8	0	NO RECOVERY			N/A	N/A	
15.0 15.5		06/03/93 00:00	23	0	NO RECOVERY			N/A	N/A	
15.5 16.0	000000 3624-0 6701-0 06/03/93 00:00		36	0	NO RECOVERY			N/A	N/A	
16.0 16.5	116455 06/07/93 10:00	28	6	VERY DENSE, (10YR, 5/1), POORLY GRADED SAND, LOW PLASTICITY, MOIST			SP	N/A	PID=0.5 ppm BT=60 cpm	
16.5 17.0	116456 06/07/93 10:00	63	6	SAA			SP	N/A	PID=0.5 ppm BT=60 cpm	
17.0 17.5	116457 06/07/93 10:00	72	6	SAA			SP	N/A	PID=0.5 ppm BT=60 cpm	
17.5 18.0	116458 06/07/93 10:00	85	6	SAA			SP	N/A	PID=0.5 ppm BT=60 cpm	
NOTES:										
Boring Contractor: PENNSYLVANIA DRILLING Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: ACKER SOIL SENTRY										
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION								
BORING NUMBER: 11051					COORDINATES: NORTH 477985.59 EAST 1379026.36			DATE: 26-MAY-93					
GROUND ELEVATION: 573.3					GWL:	Depth	Date/Time	DATE STARTED: 26-MAY-93					
ENGINEER/GEOLOGIST: J REAGAN					Depth	Date/Time		DATE COMPLETE: 27-MAY-93					
DRILLING METHOD: HOLLOW STEM AUGER													
D E P T H	S A M P L E	D A T E E E	B L O W S P E E N	S A M P L E R E C O V E R Y	R E I N C H E S		S U S C B S O L	T S F	REMARKS				
19.0		05/26/93 14:40	N/A	N/A	AUGERED 0-19 FT. BLACK FLYASH			N/A	N/A				
21.0	116436 05/26/93 14:40	100	4		MIXED TERRACOTTA PIPE MATERIAL AND FLYASH, WET			N/A	N/A	PID=2.0 ppm BT=800 cpm			
21.0	116438 116439 116440 05/27/93 09:40	10	6		MIXED WASTE MATERIALS, CONCRETE, BLACK FLYASH, SOIL IS SILTY FINE SAND			N/A	N/A	PID=0.5 ppm BT=1600 cpm			
22.0	116441 116442 116443 05/27/93 10:10	100	6		MIXED WASTE, BOLTS, NAILS FLYASH. SOIL IS SILTY FINE SAND MATERIAL			N/A	N/A	PID=1.5 ppm BT=1000 cpm			
22.5	116441 116443 05/27/93 10:10	200	6		MIXED WASTE, BOLTS, NAILS, FLYASH, SOIL IS SILTY FINE, SAND MATERIAL			N/A	N/A	PID=1.5 ppm BT=1000 cpm			
23.0	116441 116442 05/27/93 10:10	100	6		MIXED WASTE, BOLTS, NAILS, FLYASH, SOIL IS SILTY FINE, SAND MATERIAL			N/A	N/A	PID=1.5 ppm BT=1000 cpm			
23.5	116441 116442 05/27/93 10:10	10	6		MIXED WASTE, BOLTS, NAILS, FLYASH, SOIL IS SILTY FINE SAND MATERIAL			N/A	N/A	PID=1.5 ppm BT=1000 cpm			
24.0	116444 05/27/93 10:50	4	6		SAA			N/A	N/A	PID=1.2 ppm BT=100 cpm			
24.5	116444 05/27/93 10:50	6	6		SAA			N/A	N/A	PID=1.2 ppm BT=100 cpm			
25.0	116444 05/27/93 10:50	8	6		VERY STIFF, (2.5Y, 4/1) SILTY CLAY, MEDIUM PLASTICITY, MOIST. ABRUPT BOUNDARY TO VERY STIFF, (10YR, 4/3) SILTY CLAY, MEDIUM PLASTICITY, MOIST			CL	2.5	PID=1.2 ppm BT=100 cpm			
25.5	05/27/93 10:50	10	6		VERY STIFF, (2.5Y, 4/1) SILTY CLAY, MEDIUM PLASTICITY, MOIST, ABRUPT BOUNDARY TO VERY STIFF, (10YR, 4/3), SILTY CLAY, MEDIUM PLASTICITY, MOIST			CL	2.5	PID=1.2 ppm BT=100 cpm			
26.0	05/27/93 10:50												
NOTES: 05/26/93 BACKGROUND: HNU=0.3 PPM, BETA GAMMA=60 CPM, 05/27/93 HNU=1 PPM, BETA GAMMA=80-100 CPM										Boring Contractor: PENNSYLVANIA DRILLING Driller: M WATRAL, B DEILEY Drilling Equipment: ACKER SOIL SENTRY			
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable													

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11051					COORDINATES: NORTH 477985.59 EAST 1379026.36			DATE: 26-MAY-93		
GROUND ELEVATION: 573.3					GWL: Depth	Date/Time		DATE STARTED: 26-MAY-93		
ENGINEER/GEOLOGIST: J REAGAN					Depth	Date/Time		DATE COMPLETE: 27-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER										
DEPTH	SAMPLE	DATE	BLOW COUNT	RECOVERY				SYMBOL	TYPE	REMARKS
26.0	05/27/93 10:50	8	6	SAA				CL	2.5	PID=1.0 ppm BI=100 cpm
26.5	05/27/93 10:50	14	6	SAA				CL	2.5	PID=1.0 ppm BI=100 cpm
27.0	05/27/93 10:50	100	5	SAA				CL	2.5	PID=1.0 ppm BI=100 cpm
28.0	116445 05/27/93 15:00	5	6	MEDIUM DENSE, (10YR, 5/6)				SP	N/A	PID=0.5 ppm BI=80 cpm
28.5	116446 05/27/93 15:00	10	6	POORLY GRADED, MEDIUM SAND				N/A	N/A	PID=0.5 ppm BI=80 cpm
29.0	116447 05/27/93 15:00	10	6	LOW PLASTICITY, MOIST				N/A	N/A	PID=0.5 ppm BI=80 cpm
29.5	116448 05/27/93 15:00	10	6					N/A	N/A	PID=0.5 ppm BI=80 cpm
NOTES: 05/26/93 BACKGROUND: HNU=0.3 PPM, BETA GAMMA=60 CPM, 05/27/93 HNU=1 PPM, BETA GAMMA=80-100 CPM										Boring Contractor: PENNSYLVANIA DRILLING Driller: M WATRAL, B DEILEY Drilling Equipment: ACKER SOIL SENTRY
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11052				COORDINATES: NORTH 478012.50 EAST 1379007.41				
GROUND ELEVATION: 572.5				GWL: Depth		Date/Time		DATE STARTED: 25-MAY-93
ENGINEER/GEOLOGIST: J REAGAN				Depth		Date/Time		DATE COMPLETE: 25-MAY-93
DRILLING METHOD: HOLLOW STEM AUGER								
DEPTH	SAMPLE	SAE TIME	BLOW COUNT	RECOVERY	SOIL	SYMBOL	TSF	REMARKS
19.0	05/25/93 00:00	N/A	N/A	AUGERED 0-19 FT		N/A	N/A	
19.0	116427 116428 116429 05/25/93 14:00	3	6	VERY STIFF, (10YR, 3/3), SILTY CLAY, MEDIUM PLASTICITY, VERY MOIST, SOME GRAVELS	CL	2	PID=2.5 ppm BT=1000 cpm	
19.5	116427 116428 116429 05/25/93 14:00	8	6	SAA	CL	2	PID=2.5 ppm BT=1000 cpm	
20.0	116427 116428 116429 05/25/93 14:00	100	3	SAA	CL	2	PID=2.5 ppm BT=1000 cpm	
21.0	116430 05/25/93 14:50	14	6	VERY STIFF, (10YR, 3/3), SILTY CLAY, MEDIUM PLASTICITY, MOIST, SOME GRAVEL	CL	2.5	PID=1 ppm BT=200 cpm	
21.5	116430 05/25/93 14:50	17	6	SAA	CL	2.5	PID=1 ppm BT=200 cpm	
22.0	05/25/93 14:50	22	0	SAA	N/A	N/A		
22.5	05/25/93 14:50	28	0	NO RECOVER (INFERRED FROM BORING LOG)	N/A	N/A		
23.0	05/25/93 00:00	6	6	VERY STIFF, (10YR, 3/3), SILTY FINE SAND, LOW PLASTICITY, MOIST	ML	2	PID=1 ppm BT=50 cpm	
23.5	05/25/93 00:00	8	6	SAA	ML	2	PID=1 ppm BT=50 cpm	
24.0	05/25/93 00:00	N/A	6	SAA	N/A	N/A	PID=1 ppm	
24.5	05/25/93 00:00	12			ML	2	BT=50 cpm	
24.5	05/25/93 00:00	14	6	SAA	ML	2	PID=1 ppm BT=50 cpm	
25.0								

NOTES:

BACKGROUND: HNU=.5PPM/BETA GAMMA=60~80CPM

Boring Contractor: PENNSYLVANIA

Driller: M WATRAL, B DEILEY

Drilling Equipment: ACKER SOIL SENDRY

SAA = Same as Above

PID = Photoionization Detector

N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11052					COORDINATES: NORTH 478012.50 EAST 1379007.41				
GROUND ELEVATION: 572.5					GWL: Depth	Date/Time		DATE STARTED: 25-MAY-93	
ENGINEER/GEOLOGIST: J REAGAN					Depth	Date/Time		DATE COMPLETE: 25-MAY-93	
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E N O N	T I M E S P L E E R Y	B L O W M A C O V E R E I N C H E S		S U S C B S O L	T S F	REMARKS	
25.0	116431 116432 116433 116434 05/25/93 15:20	7	6	MEDIUM DENSE, (10YR, 5/6), POORLY GRADED MEDIUM SAND, LOW PLASTICITY, MOIST		SP	N/A	PID=2 ppm BI=50 cpm	
25.5	116431 116432 116433 116434 05/25/93 15:20	10	6	SAA		SP	N/A	PID=2 ppm BI=50 cpm	
26.0	116431 116432 116433 116434 05/25/93 15:20	10	6	SAA		SP	N/A	PID=2 ppm BI=50 cpm	
26.5	116431 116432 116433 116434 05/25/93 15:20	12	6	SAA		SP	N/A	PID=2 ppm BI=50 cpm	
27.0	116431 116432 116433 116434 05/25/93 15:20								
NOTES: BACKGROUND: HNU=.5PPM/BETA GAMMA=60-80CPM									
Boring Contractor: PENNSYLVANIA Driller: M WATRAL, B DEILEY Drilling Equipment: ACKER SOIL SENDRY									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11053					COORDINATES: NORTH 478007.29 EAST 1379053.79 DATE: 21-MAY-93				
GROUND ELEVATION: 566.2					GWL: Depth	Date/Time	DATE STARTED: 20-MAY-93		
ENGINEER/GEOLOGIST: J REAGAN					Depth	Date/Time	DATE COMPLETE: 21-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E L E N O N	B L O W S A M P L E	R E C O V E R Y	I N C H E S		S Y S M C B S O L	T S F	REMARKS
14.0	05/20/93 16:10	N/A	N/A	AUGERED TO 14' DIFFICULT AUGERING 5.5'-8.0'			N/A	N/A	
14.0 14.5	05/20/93 16:10	3	6	(10YR, 2/1) FLYASH			N/A	N/A	PID=3 ppm BT=60 cpm
14.5 15.0	05/20/93 16:10	4	6	VERY STIFF,(10YR 5/4) CLAY, MEDIUM PLASTICITY, MOIST		CL	3		PID=3 ppm BT=60 cpm
15.5 16.0	05/20/93 16:10	100	0	REFUSAL AT 15'3" AUGERED TO 16			N/A	N/A	
16.0 16.5	05/20/93 16:10	19	6	DENSE, 10YR 5/6, MEDIUM SAND, POORLY GRADED, DRY		SP	N/A		PID=3.2 ppm BT=60 cpm
16.5 17.0	05/20/93 16:10	19	6	DENSE, 10YR 5/6, MEDIUM SAND, POORLY GRADED, DRY		SP	N/A		PID=3.2 ppm BT=60 cpm
17.0 17.5	05/20/93 16:10	15	6	DENSE, 10YR 5/6, MEDIUM SAND, POORLY GRADED, DRY		SP	N/A		PID=3.2 ppm BT=60 cpm
17.5 18.0	05/20/93 16:10	18	6	DENSE, 10YR 5/6, MEDIUM SAND, POORLY GRADED, DRY		SP	N/A		PID=3.2 ppm BT=60 cpm
18.0 18.5	116419 116420 05/20/93 16:10	17	6	DENSE, 10YR 5/6, MEDIUM SAND, POORLY GRADED, DRY		SP	N/A		PID=4.0 ppm BT=60 cpm
18.5 19.0	116419 116420 05/20/93 16:10	20	6	DENSE, 10YR 5/6, MEDIUM SAND, POORLY GRADED, DRY		SP	N/A		PID=4.0 ppm BT=60 cpm
19.0 19.5	116419 116420 05/20/93 16:10	23	6	DENSE, 10YR 5/6, MEDIUM SAND, POORLY GRADED, DRY		SP	N/A		PID=4.0 ppm BT=60 cpm
19.5 20.0	116419 116420 05/20/93 16:10	22	6	DENSE, 10YR 5/6, MEDIUM SAND, POORLY GRADED, DRY		SP	N/A		PID=4.0 ppm BT=60 cpm
NOTES:									
Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: M WATRAL, B DEILEY Drilling Equipment: ACKER SOIL SENTRY									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11053					COORDINATES: NORTH 478007.29 EAST 1379053.79			DATE: 21-MAY-93	
GROUND ELEVATION: 566.2					GWL: Depth		Date/Time		DATE STARTED: 20-MAY-93
ENGINEER/GEOLOGIST: J REAGAN					Depth		Date/Time		DATE COMPLETE: 21-MAY-93
DRILLING METHOD: HOLLOW STEM AUGER									
DEPTH	SAMPLE	SA	DATUM	BLOWS	RECOVERY	SOIL	TYPE	TEST	REMARKS
		A	T	B	S	C	E	I	
		M	M	L	P	O	M	N	
		A	E	S	E	C	V	C	
		T	E	S	R	H	E	F	
		E	E	L	E	E	C	S	
		N	O	R	E	N	H	O	
		E	N	E	R	C	T	R	
20.0	05/20/93 16:10	13		6	SAA		SP	N/A	PID=5.0 ppm BI=60 cpm
20.5									
20.5	05/20/93 16:10	20		6	SAA		SP	N/A	PID=5.0 ppm BI=60 cpm
21.0									
21.0	05/20/93 16:10	23		6	SAA		SP	N/A	PID=5.0 ppm BI=60 cpm
21.5									
21.5	05/20/93 16:10	23		0	NO RECOVERY (INFERRED FROM BORING LOG)		N/A	N/A	
22.0									
22.0	05/20/93 16:10	17		6	SAA		SP	N/A	PID=.5 ppm BI=40 cpm
22.5									
22.5	05/20/93 16:10	18		6	SAA		SP	N/A	PID=.5 ppm BI=40 cpm
23.0									
23.0	05/20/93 16:10	19		6	SAA		SP	N/A	PID=.5 ppm BI=40 cpm
23.5									
23.5	05/20/93 16:10	26		6	SAA		SP	N/A	PID=.5 ppm BI=40 cpm
24.0									
24.0	116421 116422 05/21/93 09:40	3		6	DENSE, 10YR 5/6, MEDIUM SAND, POORLY GRADED, MOIST		SP	N/A	PID=.5 ppm
24.5									
24.5	116421 116422 05/21/93 09:40	17		6	DENSE, 10YR 5/6, MEDIUM SAND, POORLY GRADED, MOIST		SP	N/A	PID=.5 ppm
25.0									
25.0	116421 116422 05/21/93 09:40	20		6	DENSE, 10YR 5/6, MEDIUM SAND, POORLY GRADED, MOIST		SP	N/A	PID=.5 ppm
25.5									
25.5	116421 116422 05/21/93 09:40	26		6	DENSE, 10YR 5/6, MEDIUM SAND, POORLY GRADED, MOIST		SP	N/A	PID=.5 ppm
26.0									
NOTES:									
Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: M WATRAL, B DEILEY Drilling Equipment: ACKER SOIL SENTRY									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION											
BORING NUMBER: 11054				COORDINATES: NORTH 477832.87 EAST 1379123.03 DATE: 21-MAY-93											
GROUND ELEVATION: 566.5				GWL: Depth Date/Time				DATE STARTED:							
ENGINEER/GEOLOGIST: J BOYER				Depth Date/Time				DATE COMPLETE: 21-MAY-93							
DRILLING METHOD: HOLLOW STEM AUGER															
DEPTH	SAMPLE	DATUM	BLOW COUNT	RECOVERY	INCHES			SUSCIBLE	TSF	REMARKS					
H	E	E	N	R	E			SOIL							
8.0	05/21/93 00:00	N/A	N/A	DESTRUCTIVE DRILLING TO 8 FEET				N/A	N/A						
8.0 8.5	05/21/93 00:00	10	6	MEDIUM STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY WITH FLYASH AND GRAVEL, SLIGHTLY PLASTICITY, MOIST				CL	.75	PID=4.5 ppm BT=80 cpm					
8.5 9.0	05/21/93 00:00	8	6	SAA				CL	1.0	PID=4.5 ppm BT=80 cpm					
9.0 9.5	05/21/93 00:00	5	6	SAA				CL	.5	PID=4.5 ppm BT=80 cpm					
9.5 10.0	05/21/93 00:00	7	6	SAA				CL	.75	PID=4.5 ppm BT=80 cpm					
10.0 10.5	05/21/93 00:00	2	6	SAA				CL	1.0	PID=3.8 ppm BT=80 cpm					
10.5 11.0	05/21/93 00:00	3	0	NO RECOVERY (PUSHED ROCK)				N/A	N/A						
11.0 11.5	05/21/93 00:00	5	0	NO RECOVERY (PUSHED ROCK)				N/A	N/A						
11.5 12.0	05/21/93 00:00	5	0	NO RECOVERY (PUSHED ROCK)				N/A	N/A						
12.0 12.5	05/21/93 00:00	3	6	(10YR, 2/1) BLACK, FLYASH, MOIST				N/A	N/A	PID=4.8 ppm BT=80 cpm					
12.5 13.0	05/21/93 00:00	2	6	SAA				N/A	N/A	PID=4.8 ppm BT=80 cpm					
13.0 13.5	05/21/93 00:00	2	6	SAA				N/A	N/A	PID=4.8 ppm BT=80 cpm					
13.5 14.0	05/21/93 00:00	3	5	SAA				N/A	N/A	PID=4.8 ppm BT=80 cpm					
NOTES:															
Boring Contractor: PENNSYLVANIA DRILLING Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: ACKER															
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable															

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11054					COORDINATES: NORTH 477832.87 EAST 1379123.03			DATE: 21-MAY-93	
GROUND ELEVATION: 566.5					GWL: Depth	Date/Time		DATE STARTED:	
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 21-MAY-93	
DRILLING METHOD: HOLLOW STEM AUGER									
DEPTH	SAMPLE	SAE TIME	BLOWS	RECOVERY			SUSMBCSOL	TSSF	REMARKS
14.0	05/21/93 00:00	1	N/A	MEDIUM DENSE, (5Y, 5/6) OLIVE, SILT, TRACE GRAVEL, DRY			ML	N/A	PID=3.8 ppm BT=80 cpm
14.5	05/21/93 00:00	5	6	MEDIUM DENSE, (5Y, 5/6) OLIVE, SILT, TRACE GRAVEL, DRY			ML	N/A	PID=3.8 ppm BT=80 cpm
15.0	05/21/93 00:00	7	6	SAA			ML	N/A	PID=3.8 ppm BT=80 cpm
15.5	05/21/93 00:00	15	4	SAA			ML	N/A	PID=3.8 ppm BT=80 cpm
16.0	116340 05/21/93 10:10	5	6	DENSE, (2.5Y, 5/6) LIGHT OLIVE BROWN, POORLY GRADED SAND, MOIST			SP	N/A	PID=2.6 ppm BT=80 cpm
16.5	116340 05/21/93 10:10	10	6	SAA			SP	N/A	PID=2.6 ppm BT=80 cpm
17.0	05/21/93 10:10	17	0	NO RECOVERY			N/A	N/A	PID=2.6 ppm BT=80 cpm
17.5	05/21/93 10:10	22	0	NO RECOVERY			N/A	N/A	PID=2.6 ppm BT=80 cpm
18.0	05/21/93 00:00	5	6	DENSE, (2.5Y, 5/6) LIGHT OLIVE BROWN, POORLY GRADED SAND, MOIST			SP	N/A	PID=3.4 ppm BT=80 cpm
18.5	05/21/93 00:00	11	6	SAA			SP	N/A	PID=3.4 ppm BT=80 cpm
19.0	05/21/93 00:00	17	2	SAA			SP	N/A	PID=3.4 ppm BT=80 cpm
19.5	05/21/93 00:00	28	0	NO RECOVERY			N/A	N/A	
20.0	05/21/93 00:00	5	6	DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, POORLY GRADED SAND, TRACE GRAVEL, MOIST			SP	N/A	PID=3.2 ppm BT=80 cpm
NOTES: Boring Contractor: PENNSYLVANIA DRILLING Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: ACKER SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11054					COORDINATES: NORTH 477832.87 EAST 1379123.03			DATE: 21-MAY-93	
GROUND ELEVATION: 566.5					GWL: Depth Date/Time			DATE STARTED:	
ENGINEER/GEOLOGIST: J BOYER					Depth Date/Time			DATE COMPLETE: 21-MAY-93	
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E E	B L O W S E N O N	T I M E S P L E R Y	R E C O V E R Y	I N C H E E S	S Y M B S O L	T S F	REMARKS
20.5		05/21/93 00:00	9		6	SAA	SP	N/A	PID=3.2 ppm BT=80 cpm
21.0		05/21/93 00:00	17		6	SAA	SP	N/A	PID=3.2 ppm BT=80 cpm
21.5		05/21/93 00:00	27		0	NO RECOVERY INFERRED FROM BORING LOG	N/A	N/A	
22.0		05/21/93 10:10	7		N/A	DENSE, (2.5Y, 5/6) LIGHT OLIVE BROWN, POORLY GRADED SAND, MOIST	N/A	N/A	PID=3.3 ppm BT=80 cpm
22.5		05/21/93 10:10	12		N/A	SAA	SP	N/A	PID=3.3 ppm BT=80 cpm
23.0	116341	05/21/93 11:00	17		N/A	SAA	SP	N/A	PID=3.3 ppm BT=80 cpm
23.5	116341	05/21/93 11:00	23		N/A	SAA	SP	N/A	PID=3.3 ppm BT=80 cpm
NOTES:									
Boring Contractor: PENNSYLVANIA DRILLING Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: ACKER									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION										
BORING NUMBER: 11055					COORDINATES: NORTH 477810.59 EAST 1379125.56										
GROUND ELEVATION: 567					GWL: Depth	Date/Time		DATE STARTED: 19-MAY-93							
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 19-MAY-93							
DRILLING METHOD: HOLLOW STEM AUGER															
DEPTH	SAMPLE	DEPTH	BLOW COUNT	RECOVERY	INCHES			SUSY SSM CBL SOL	TSF	REMARKS					
10.0	05/19/93 00:00	N/A	N/A	DESTRUCTIVE DRILLING TO 10 FEET					N/A	N/A					
10.0 10.5	05/19/93 00:00	12	6	(10YR, 2/1), FLYASH, BLACK, MOIST					N/A	N/A					
10.5 11.0	05/19/93 00:00	15	6	SAA					N/A	N/A					
11.0 11.5	05/19/93 00:00	5	6	SAA					N/A	N/A					
11.5 12.0	05/19/93 00:00	10	6	STIFF, (2.5Y, 5/3) LIGHT OLIVE BROWN, SILTY CLAY WITH FLYASH AND GRAVEL, LOW PLASTICITY, MOIST					CL	1.0					
12.0 12.5	05/19/93 00:00	16	6	(10YR, 2/1), FLYASH, BLACK, MOIST WITH CONCRETE AND SILTY CLAY					N/A	N/A					
12.5 13.0	05/19/93 00:00	28	6	SAA					N/A	N/A					
13.0 13.5	05/19/93 00:00	14	0	NO RECOVERY					N/A	N/A					
13.5 14.0	05/19/93 00:00	16	0	SAA					N/A	N/A					
14.0 14.5	05/19/93 00:00	3	6	(10YR, 2/1), FLYASH, BLACK, 45% SILTY CLAY, (2.5Y, 5/4) MOIST					N/A	N/A					
14.5 15.0	05/19/93 00:00	2	6	(10YR, 2/1) BLACK, FLYASH					N/A	N/A					
15.0 15.5	05/19/93 00:00	2	6	SAA					N/A	N/A					
15.5 16.0	05/19/93 00:00	2	0	NO RECOVERY					N/A	N/A					
NOTES:										Driller: JOE RAAB Drilling Equipment: HOLLOW STEM AUGER					
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable					

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11055				COORDINATES: NORTH 477810.59 EAST 1379125.56			DATE: 19-MAY-93		
GROUND ELEVATION: 567				GWL: Depth	Date/Time		DATE STARTED: 19-MAY-93		
ENGINEER/GEOLOGIST: J BOYER				Depth	Date/Time		DATE COMPLETE: 19-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER									
DEPTH	SAMPLE	SAFETY TIME	BORING NUMBER	RECOVERY	TESTS	TESTS	SYNTHETIC MATERIALS CERAMICS SOIL	REMARKS	
16.0	116331 05/19/93 13:00	333	3	24	(10YR, 2/1) BLACK, FLYASH, SLIGHTLY MOIST		N/A	N/A	PID=0.0 ppm BT=40 cpm
16.5									
18.0	05/19/93 00:00	N/A	N/A		DESTRUCTIVE DRILLING TO 23 FEET		N/A	N/A	
23.0									
23.0	05/19/93 00:00	6	6		(10YR, 2/1), FLYASH, BLACK, SLIGHTLY MOIST		N/A	N/A	PID=0.0 ppm BT=40 cpm
23.5	116332 05/19/93 13:35	6	6		MEDIUM DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY SAND WITH GRAVEL, MOIST		SM	N/A	PID=0.0 ppm BT=40 cpm
24.0									
24.0	116332 05/19/93 13:35	7	6		SAA		SM	N/A	PID=0.0 ppm BT=40 cpm
24.5									
24.5	116332 05/19/93 13:35	13	6		SAA		SM	N/A	PID=0.0 ppm BT=40 cpm
25.0									
NOTES:									
Driller: JOE RAAB Drilling Equipment: HOLLOW STEM AUGER SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION										
BORING NUMBER: 11056					COORDINATES: NORTH 477814.54 EAST 1379102.38			DATE: 20-MAY-93							
GROUND ELEVATION: 563.5					GWL: Depth	Date/Time		DATE STARTED: 20-MAY-93							
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 20-MAY-93							
DRILLING METHOD: HOLLOW STEM AUGER															
D E P T H	S A M P L E	D A T E E E	B L O W N O R E	S A M P L E S P L E R Y	R E C O V E R Y	I N C H E S		S U S M C B S O L	T S F	REMARKS					
10.0		05/20/93 10:15	N/A	N/A	DESTRUCTIVE DRILL TO 10 FEET					N/A	N/A				
8.5 9.0	113256 05/27/93 08:40	10	6	MEDIUM DENSE (10YR) LIGHT BROWNISH GRAY AND (10YR, 5/6) YELLOWISH BROWN CLAYEY SILT, DRY					ML	N/A					
10.0 10.5	05/20/93 00:00	33	6	VERY DENSE, (2.5YR, 5/6) LIGHT OLIVE BROWN, SILTY SAND AND FLYASH, (50%) MOIST					SM	N/A					
10.5 11.0	05/20/93 00:00	50	6	SAA					SM	N/A					
11.0 11.5	05/20/93 00:00	3	0	NO RECOVERY SPLIT SPOON REFUSAL					N/A	N/A					
11.5 12.0	05/20/93 00:00	10	0	SAA					N/A	N/A					
12.0 12.5	05/20/93 00:00	14	6	(10YR, 2/1) FLYASH, BLACK, SLIGHTLY MOIST					N/A	N/A					
12.5 13.0	05/20/93 00:00	17	6	SAA					N/A	N/A					
13.0 13.5	05/20/93 00:00	4	6	SAA					N/A	N/A					
13.5 14.0	05/20/93 00:00	2	6	SAA					N/A	N/A					
14.0 14.5	05/20/93 00:00	18	6	SAA					N/A	N/A					
14.5 15.0	05/20/93 00:00	22	6	SAA					N/A	N/A					
15.0 15.5	05/20/93 00:00	4	6	SAA					N/A	N/A					
NOTES:										Boring Contractor: PENNSYLVANIA DRILLING Driller: JOE RAAB Drilling Equipment: ACKER					
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable					

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 11056					COORDINATES: NORTH 477814.54 EAST 1379102.38 DATE: 20-MAY-93						
GROUND ELEVATION: 563.5					GWL: Depth Date/Time			DATE STARTED: 20-MAY-93			
ENGINEER/GEOLOGIST: J BOYER					Depth Date/Time			DATE COMPLETE: 20-MAY-93			
DRILLING METHOD: HOLLOW STEM AUGER											
D E P T H	S A M P L E	D A T E E E	B L O S N	S A M S P L E	R E C O V E R Y	I N C H E S		S U S M C B S O L	T S F	REMARKS	
15.5		05/20/93 00:00	3		6	SAA		N/A	N/A	PID=2.5 ppm BT=60 cpm	
16.0		116335 05/20/93 10:15	2		6	(10YR, 2/1) BLACK, FLYASH, MOIST		N/A	N/A	PID=2.6 ppm BT=60 cpm	
16.5		116335 05/20/93 10:15	2		6	SAA		N/A	N/A	PID=2.6 ppm BT=60 cpm	
17.0		116335 05/20/93 10:15	2		6	SAA		N/A	N/A	PID=2.6 ppm BT=60 cpm	
17.5		116335 05/20/93 10:15	2		6	SAA		N/A	N/A	PID=2.6 ppm BT=60 cpm	
18.0		116335 05/20/93 00:00	12		6	SAA		N/A	N/A	PID=4.5 ppm BT=40 cpm	
18.5		116335 05/20/93 00:00	22		6	SAA		N/A	N/A	PID=4.5 ppm BT=40 cpm	
19.0		116335 05/20/93 00:00	22		6	SAA		N/A	N/A	PID=4.5 ppm BT=40 cpm	
19.5		05/20/93 00:00	12		6	DENSE, (10YR, 3/4) DARK YELLOWISH BROWN, SILT, TRACE COARSE SAND, MOIST	ML	N/A	N/A	PID=4.5 ppm BT=40 cpm	
20.0		05/20/93 00:00	6		6	MEDIUM DENSE, (10YR, 4/6) DARK YELLOWISH BROWN, SILT, TRACE COARSE SAND, MOIST.	ML	N/A	N/A	PID=5.3 ppm BT=40 cpm	
20.5		05/20/93 00:00	6		6	SAA		N/A	N/A	PID=5.3 ppm BT=40 cpm	
21.0		05/20/93 00:00	7		6	SAA		N/A	N/A	PID=5.3 ppm BT=40 cpm	
21.5		05/20/93 00:00	12		2	SAA		N/A	N/A	PID=5.3 ppm BT=40 cpm	
NOTES:										Boring Contractor: PENNSYLVANIA DRILLING Driller: JOE RAAK Drilling Equipment: ACKER	
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11056					COORDINATES: NORTH 477814.54 EAST 1379102.38			DATE: 20-MAY-93		
GROUND ELEVATION: 563.5					GWL: Depth Date/Time			DATE STARTED: 20-MAY-93		
ENGINEER/GEOLOGIST: J BOYER					Depth Date/Time			DATE COMPLETE: 20-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D T I M E S	B L O W S O N	R E C O V E R Y	I N C H E S		S U S C S	T Y M B O L	REMARKS	
22.0	05/20/93	12	6	DENSE, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY SAND, TRACE COARSE SAND AND PEBBLES, MOIST				SM	N/A	PID=3.6 ppm BT=40 cpm
22.5	00:00									
22.5	05/20/93	14	6	SAA				N/A	N/A	PID=3.6 ppm BT=40 cpm
23.0	00:00									
23.0	116336	17	6	SAA				N/A	N/A	PID=3.6 ppm BT=40 cpm
23.5	05/20/93									
23.5	116336	23	6	DENSE, (2.5Y, 5/6) LIGHT OLIVE BROWN, POORLY GRADED SAND, MOIST				SP	N/A	PID=3.6 ppm BT=40 cpm
24.0	05/20/93									
24.0	11:00									
NOTES:										
Boring Contractor: PENNSYLVANIA DRILLING Driller: JOE RAAB Drilling Equipment: ACKER										
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11057					COORDINATES: NORTH 477835.17 EAST 1379107.43 DATE: 20-MAY-93					
GROUND ELEVATION: 563.5					GWL: Depth Date/Time			DATE STARTED: 20-MAY-93		
ENGINEER/GEOLOGIST: J BOYER					Depth Date/Time			DATE COMPLETE: 20-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E	B L O W S A M P L E O N	T I M E	R E C O R D E R Y	I N C H E S	S U S M C B S O L	T S F	REMARKS	
10.0		05/20/93 00:00	N/A	N/A	DESTRUCTIVE DRILL TO 10 FEET			N/A	N/A	
10.0 10.5		05/20/93 00:00	33	6	DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY SAND, TRACE COARSE SAND, MOIST			SM	N/A	PID=4.4 ppm BT=60 cpm
10.5 11.0		05/20/93 00:00	17	6	SAA			SM	N/A	PID=4.4 ppm BT=60 cpm
11.0 11.5		05/20/93 00:00	7	6	(10YR, 2/1) BLACK, FLYASH, MOIST			N/A	N/A	PID=4.4 ppm BT=60 cpm
11.5 12.0		05/20/93 00:00	5	6	SAA			N/A	N/A	PID=4.4 ppm BT=60 cpm
12.0 12.5		05/20/93 00:00	4	6	SAA			N/A	N/A	PID=2.1 ppm BT=60 cpm
12.5 13.0		05/20/93 15:30	4	6	SAA			N/A	N/A	PID=2.1 ppm BT=60 cpm
13.0 13.5		05/20/93 00:00	2	6	SAA			N/A	N/A	PID=2.1 ppm BT=60 cpm
13.5 14.0		05/20/93 00:00	8	3	LOOSE, (2.5Y, 5/3) LIGHT OLIVE BROWN, CLAYEY SILT WITH FLYASH, TRACE GRAVEL, LOW PLASTICITY, MOIST			ML	N/A	PID=2.1 ppm BT=60 cpm
14.0 14.5		05/20/93 00:00	7	6	(10YR, 2/1) BLACK, FLYASH, MOIST, TRACE WOOD FRAGMENTS			N/A	N/A	PID=4.4 ppm BT=60 cpm
14.5 15.0		05/20/93 00:00	6	6	SAA			N/A	N/A	PID=4.4 ppm BT=60 cpm
15.0 15.5		05/20/93 00:00	10	6	MEDIUM DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, POORLY GRADED SAND, TRACE SILT, MOIST			SP	N/A	PID=4.4 ppm BT=60 cpm
15.5 16.0		05/20/93 15:30	9	6	SAA			SP	N/A	PID=4.4 ppm BT=60 cpm
NOTES:										
<p style="text-align: right;">Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: ACKER</p> <p style="text-align: right;">SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable</p>										

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11057					COORDINATES: NORTH 477835.17 EAST 1379107.43				
GROUND ELEVATION: 563.5					GWL: Depth	Date/Time			DATE STARTED: 20-MAY-93
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time			DATE COMPLETE: 20-MAY-93
DRILLING METHOD: HOLLOW STEM AUGER									
DEPTH	SAMPTIME	BLOWSPACES	RECOVERY	INCHES		SYMBOL	TSF		REMARKS
ELE	EE	ON	PE	RY					
16.0	116337 05/20/93 15:30	12	6		DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, POORLY GRADED SAND, MOIST	SP	N/A	PID=2.6 ppm BT=60 cpm	
16.5									
16.5	05/20/93 15:30	14	6		SAA	SP	N/A	PID=2.6 ppm BT=60 cpm	
17.0									
17.0	116337 05/20/93 15:30	16	6		SAA	SP	N/A	PID=2.6 ppm BT=60 cpm	
17.5									
17.5	116337 05/20/93 15:30	21	6		SAA	SP	N/A	PID=2.6 ppm BT=60 cpm	
18.0									
18.0	116337 05/20/93 15:30	4	6		DENSE, (2.5Y, 5/6) LIGHT OLIVE BROWN, POORLY, GRADED SAND, MOIST	SP	N/A	PID=2.5 ppm BT=60 cpm	
18.5									
18.5	05/20/93 00:00	12	6		SAA	SP	N/A	PID=2.5 ppm BT=60 cpm	
19.0									
19.0	05/20/93 00:00	15	6		SAA	SP	N/A	PID=2.5 ppm BT=60 cpm	
19.5									
19.5	05/20/93 00:00	21	6		SAA	SP	N/A	PID=2.5 ppm BT=60 cpm	
20.0									
20.0	05/20/93 00:00	5	6		SAA	SP	N/A	PID=2.0 ppm BT=60 cpm	
20.5									
20.5	05/20/93 00:00	15	6		SAA	SP	N/A	PID=2.0 ppm BT=60 cpm	
21.0									
21.0	05/20/93 00:00	15	6		SAA	SP	N/A	PID=2.0 ppm BT=60 cpm	
21.5									
21.5	05/20/93 00:00	17	6		SAA	SP	N/A	PID=2.0 ppm BT=60 cpm	
22.0									
22.0	05/20/93 00:00	20	6		SAA	SP	N/A	PID=2.0 ppm BT=60 cpm	
22.5									
22.5	05/20/93 00:00	17	6		SAA	SP	N/A	PID=1.0 ppm BT=40-60 cpm	
NOTES:									
Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: ACKER									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11057					COORDINATES: NORTH 477835.17 EAST 1379107.43 DATE: 20-MAY-93				
GROUND ELEVATION: 563.5					GWL: Depth Date/Time DATE STARTED: 20-MAY-93				
ENGINEER/GEOLOGIST: J BOYER					Depth Date/Time DATE COMPLETE: 20-MAY-93				
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E E	T M E S L O N	B L O W S P L E	R E C O V E R Y	I N C H E S	S U Y S M C B S O L	T S F	REMARKS
22.5		05/20/93 00:00	21		6	SAA	SP	N/A	PID=1 ppm BT=40-60 cpm
23.0		116338 05/20/93 16:00	25		6	SAA	SP	N/A	PID=1.0 ppm BT=40-60 cpm
23.5		116338 05/20/93 16:00	15		6	SAA	SP	N/A	PID=1.0 ppm BT=40-60 cpm
24.0									
NOTES:									
Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: ACKER SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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000409

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PROJECT NUMBER: 602 3.2					PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION				
BORING NUMBER: 2047					COORDINATES: NORTH 478263.85 EAST 1379054.18			DATE: 20-DEC-88	
GROUND ELEVATION: 568.45					GWL: Depth	Date/Time		DATE STARTED: 20-DEC-88	
ENGINEER/GEOLOGIST: W.A. HERTEL					Depth	Date/Time		DATE COMPLETE: 05-JAN-89	
DRILLING METHOD: CABLE-TOOL DRILLING									
D E P T H	S A M P L E	D A M E E	T R E S O N	B L O W S P L E Y	S A M P L E R E C O V E R Y	I N C H E S	U S C S O L	T S F	REMARKS
20.0 21.5	008959 12/20/88 15:20	16 28	10	VERY DENSE, BROWN (10 YR 4/3) WELL GRADED, GRAVELLY SAND APPROX. 10% GRAVEL, DRY			SW	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60-80$ cpm
25.0 26.5	008960 12/20/88 15:40	9 13	10	DENSE, YELLOWISH BROWN (10 YR 5/4) POORLY GRADED SAND, NO GRAVEL, DRY			SP	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-60$ cpm
30.0 31.5	008961 12/20/88 16:35	11 29	15	VERY DENSE, BROWN (10 YR 5/3) POORLY GRADED SAND TOP 12 IN., NO GRAVEL TO WELL GRADED SAND AND GRAVEL BOTTOM 3 IN.			SP SW	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-60$ cpm
50.0 51.5	008965 12/21/88 14:55	14 24	14	VERY DENSE, BROWN (10 YR 5/3) POORLY GRADED SAND LESS THAN 5% GRAVEL			SP	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-60$ cpm
55.0 56.5	008966 12/21/88 15:35	18 34	16	VERY DENSE, YELLOWISH BROWN (10 YR 5/4) TOP 12 IN. IS WELL GRADED SAND AND GRAVEL. BOTTOM 4 IN. IS POORLY GRADED FINE SAND.			SW SP	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-60$ cpm
60.0 61.5	008967 12/21/88 16:00	5 6	15	MEDIUM DENSE, BROWN (10 YR 5/3) POORLY GRADED SAND LESS THAN 5% GRAVEL			SP	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-60$ cpm
NOTES:									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

200000

E-19-73

000410

January 21, 1995

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02/02/94 16:35

PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION								
BORING NUMBER: 2955					COORDINATES: NORTH 478103.82 EAST 1378953.07			DATE: 26-APR-93					
GROUND ELEVATION: 577.2					GWL: Depth 53 Date/Time 30-Apr-93 08:43			DATE STARTED: 26-APR-93					
ENGINEER/GEOLOGIST: KEN GEIGER					Depth 53.3 Date/Time 06-May-93 08:00			DATE COMPLETE: 05-MAY-93					
DRILLING METHOD: CABLE TOOL													
D E P T H	S A M P L E	D A T E E E	B L O W S O N	T I M E E E	R E C O V P L E	I N C H E R Y	S U S C B S O L	T S F	REMARKS				
1.0	110768 04/26/93 13:45	3 10		8	STIFF, OLIVE BROWN, (2.5Y, 4/3), SILTY CLAY WITH SOME ROCK FRAGMENTS AND FLYASH, LOW PLASTICITY, SLIGHTLY MOIST			CL	1.25	PID=1.4 ppm $\alpha=0$ ppm $\delta\Gamma=40$ cpm			
1.0 1.5	110768 04/26/93 13:45	9		4	MEDIUM DENSE, BLACK, (2.5Y, 2.5/1), FLYASH, DRY			N/A	N/A	PID=1.4 ppm $\alpha=0$ ppm $\delta\Gamma=40$ cpm			
1.5 3.0	110769 04/26/93 13:50	6 5 8		16	MEDIUM DENSE, BLACK (2.5Y, 2.5/1), FLYASH, DRY			N/A	N/A	PID=1.4 ppm $\alpha=0$ ppm $\delta\Gamma=40-80$ cpm			
3.0 4.5	110770 04/26/93 13:55	4 6 8		15	SAA			N/A	N/A	PID=1.4 ppm $\alpha=0$ ppm $\delta\Gamma=40-80$ cpm			
4.5 6.0	110771 04/26/93 14:00	7 6 5		15	SAA			N/A	N/A	PID=1.3 ppm $\alpha=0$ ppm $\delta\Gamma=40-60$ cpm			
6.0 7.5	110772 04/26/93 14:05	3 3 4		13	LOOSE, BLACK (2.5Y, 2.5/1), FLYASH, DRY			N/A	N/A	PID=1.4 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm			
7.5 9.0	110773 04/26/93 14:10	2 2 2		7	VERY LOOSE, BLACK (2.5Y, 2.5/1), FLYASH, DRY			N/A	N/A	PID=1.4 ppm $\alpha=0$ ppm $\delta\Gamma=60-80$ cpm			
9.0 10.5	110774 04/26/93 14:15	2 1 2		5	SAA			N/A	N/A	PID=1.4 ppm $\alpha=0$ ppm $\delta\Gamma=40-60$ cpm			
10.5 12.0	110775 04/26/93 16:15	4 3 4		7	LOOSE, BLACK, (2.5Y, 2.5/1), FLYASH WITH SOME WOOD FRAGMENTS, WET			N/A	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=40-60$ cpm			
12.0 13.5	110776 04/26/93 16:20	3 2 2		9	VERY LOOSE, BLACK, (2.5Y, 2.5/1), FLYASH, WET			N/A	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=40-60$ cpm			
13.5 15.0	110777 04/26/93 16:35	3 2 2		11	SAA			N/A	N/A	PID=0.2 ppm $\alpha=0$ ppm $\delta\Gamma=60-90$ cpm			
15.0 16.5	110778 04/26/93 16:40	5 9 10		9	MEDIUM STIFF, OLIVE (5Y, 4/2), SILTY CLAY WITH A TRACE OF GRAVEL AND ROOT FRAGMENTS, MEDIUM PLASTICITY, SLIGHTLY MOIST			CL	1.0	PID=.1 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm			
16.5 18.0	110779 04/27/93 08:45	2 5 7		8	MEDIUM STIFF, OLIVE (5Y, 4/2), SILTY CLAY WITH A TRACE OF GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST			CL	1.0	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm			
NOTES:										Boring Contractor: PENNSYLVANIA DRILLING Driller: DAVE NEWMAN			
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable			

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02/02/94 16:35

PROJECT NUMBER: 20.03.05						PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION										
BORING NUMBER: 2955						COORDINATES: NORTH 478103.82 EAST 1378953.07										
GROUND ELEVATION: 577.2						GWL: Depth 53 Date/Time 30-Apr-93 08:43										
ENGINEER/GEOLOGIST: KEN GEIGER						Depth 53.3 Date/Time 06-May-93 08:00										
DRILLING METHOD: CABLE TOOL																
D E P T H	S A M P L E	D A T E E E	B L O W S O N	S A M P L E R E Y	R E C O V E R Y	I N C H E S		S Y M C B S O L	T S F	REMARKS						
18.0 19.5	110780 04/27/93 09:00	11 15 21	11 15 21	7	STIFF, OLIVE (5Y, 4/2), SILTY CLAY WITH A TRACE OF GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST			CL	1.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm						
19.5 21.0	110781 04/27/93 09:55	14 18 21	14 18 21	18	STIFF, OLIVE (5Y, 4/4), SILTY CLAY WITH SOME GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST			CL	2.0	PID=2 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm						
21.0 22.5	110782 04/27/93 10:00	16 28 39	16 28 39	18	VERY STIFF, LIGHT OLIVE BROWN (2.5Y, 5/4), SILTY CLAY WITH SOME GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST			CL	2.5	PID=3 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm						
22.5 24.0	110783 04/27/93 10:30	18 29 38	18 29 38	5	STIFF, OLIVE BROWN, (2.5Y, 4/4), SILTY GRAVELLY CLAY WITH SOME ROCK FRAGMENTS, MEDIUM PLASTICITY, SLIGHTLY MOIST			CL	2.0	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm						
24.0 24.5	110784 04/27/93 10:45	16	16	4	DENSE, YELLOWISH BROWN, (10YR, 5/1), WELL GRADED SAND, SLIGHTLY MOIST			SW	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm						
24.5 25.5	110784 04/27/93 10:45	18 21	18 21	10	VERY STIFF, GRAY (10YR, 5/1), SILTY CLAY WITH SOME GRAVEL, LOW PLASTICITY, SLIGHTLY MOIST			CL	3.0	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm						
25.5 27.0	110785 04/27/93 14:10	19 27 50	19 27 50	12	VERY STIFF, YELLOWISH BROWN (10YR, 5/6), SILTY CLAY WITH SOME GRAVEL AND SAND, LOW PLASTICITY, SLIGHTLY MOIST			CL	4.0	PID=1 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm						
27.0 28.5	110786 04/27/93 14:45	21 37 40	21 37 40	11	VERY DENSE, DARK YELLOWISH BROWN (10YR, 4/4), POORLY GRADED SAND WITH SOME GRAVEL, DRY			SP	N/A	PID=1 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm						
28.5 30.0	04/27/93 14:45	N/A	N/A		NO SAMPLE TAKEN, SAMPLES TO BE TAKEN EVERY 5' STARTING AT 30'.			N/A	N/A							
30.0 31.5	110787 04/28/93 09:10	5 13 25	5 13 25	7	DENSE, DARK YELLOWISH BROWN, (10YR, 4/4), WELL GRADED SAND WITH SOME GRAVEL, DRY			SW	N/A	PID=.5 ppm $\alpha=0$ ppm $\delta\Gamma=40-60$ cpm						
35.0 36.5	112942 04/28/93 09:40	13 17 29	13 17 29	12	DENSE, DARK YELLOWISH BROWN (10YR, 4/4), POORLY GRADED, SAND WITH SOME GRAVEL, DRY			SP	N/A	PID=.5 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm						
40.0 41.5	112943 04/28/93 10:00	15 16 19	15 16 19	10	DENSE, DARK YELLOWISH BROWN, (10YR, 4/4), WELL GRADED, SAND WITH SOME GRAVEL, DRY			SW	N/A	PID=1.0 ppm $\alpha=0$ ppm $\delta\Gamma=60-80$ cpm						
45.0 46.5	112944 04/28/93 13:45	12 22 30	12 22 30	9	VERY DENSE, DARK YELLOWISH BROWN, (10YR, 4/4), WELL GRADED SAND WITH SOME GRAVEL, DRY			SW	N/A	PID=.5 ppm $\alpha=0$ ppm $\delta\Gamma=60-80$ cpm						
NOTES:																
Boring Contractor: PENNSYLVANIA DRILLING Driller: DAVE NEWMAN																
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable																

110780

E-19-75

000412

02/02/94 16:35

FEMP-OU02-6 FINAL

January 21, 1995

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 2955					COORDINATES: NORTH 478103.82 EAST 1378953.07			DATE: 26-APR-93	
GROUND ELEVATION: 577.2					GWL: Depth 53	Date/Time 30-Apr-93 08:43		DATE STARTED: 26-APR-93	
ENGINEER/GEOLOGIST: KEN GEIGER					Depth 53.3	Date/Time 06-May-93 08:00		DATE COMPLETE: 05-MAY-93	
DRILLING METHOD: CABLE TOOL									
DEPTH	SAMPLE	DATA	BLOW	RECOVERY	TEST	TEST	TEST	SYMBOL	TEST
50.0	112945 04/28/93 15:10	17 22 29	8	VERY DENSE, DARK YELLOWISH BROWN (10YR, 4/4), POORLY GRADED, SAND WITH SOME GRAVEL, DRY	SP	N/A	PID=.1 ppm $\alpha=0$ ppm $BT=60$ cpm		
51.5	112946 04/29/93 13:30	50	4	VERY DENSE, DARK YELLOWISH BROWN (10YR, 4/4), POORLY GRADED GRAVELLY SAND, SLIGHTLY MOIST	SP	N/A	PID=0 ppm $\alpha=0$ ppm $BT=40$ cpm		
53.0	112947 04/29/93 13:45	6 20 40	9	VERY DENSE, DARK YELLOWISH BROWN (10YR, 4/4), WELL GRADED SAND WITH SOME GRAVEL, WET	SW	N/A	PID=0 ppm $\alpha=0$ ppm $BT=60$ cpm		
54.5	112948 04/29/93 14:05	9 13 16	12	MEDIUM DENSE, DARK YELLOWISH BROWN, (10YR, 4/4), POORLY GRADED, SAND WITH SOME GRAVEL, WET	SP	N/A	PID=0 ppm $\alpha=0$ ppm $BT=40-60$ cpm		
56.0	112949 04/29/93 15:45	9 11 17	18	MEDIUM DENSE, DARK YELLOWISH BROWN (10YR, 4/4), WELL GRADED SAND WITH SOME GRAVEL, WET	SW	N/A	PID=0 ppm $\alpha=0$ ppm $BT=40$ cpm		
57.5	112950 04/29/93 16:05	7 18 28	18	DENSE, DARK YELLOWISH BROWN (10YR, 4/4), POORLY GRADED SAND WITH SOME GRAVEL, WET	SP	N/A	PID=0 ppm $\alpha=0$ ppm $BT=60$ cpm		
59.0	112951 04/29/93 16:20	4 8 10	18	MEDIUM DENSE, DARK GRAYISH BROWN (10YR, 4/2), POORLY GRADED SAND WITH SOME GRAVEL, WET	SP	N/A	PID=0 ppm $\alpha=0$ ppm $BT=60$ cpm		
60.5	112952 04/29/93 16:35	10 12 20	18	DENSE, DARK GRAYISH BROWN (10YR, 4/2), POORLY GRADED SAND WITH SOME GRAVEL, WET	SP	N/A	PID=0 ppm $\alpha=0$ ppm $BT=60$ cpm		
62.0	112953 04/30/93 09:20	22 17 19	18	DENSE, DARK GRAYISH BROWN (10YR, 4/2), POORLY GRADED SAND WITH SOME GRAVEL, WET	SP	N/A	PID=0 ppm $\alpha=0$ ppm $BT=40-60$ cpm		
63.5	112954 04/30/93 09:40	8 10 12	18	MEDIUM DENSE, DARK GRAYISH BROWN (10YR, 4/2), WELL GRADED SAND WITH SOME GRAVEL, WET	SW	N/A	PID=0 ppm $\alpha=0$ ppm $BT=40-60$ cpm		
65.0	04/30/93 00:00	N/A	N/A	SPLIT SPOON SAMPLED TO 65' BOTTOM OF BORING AT 70'	N/A	N/A			

NOTES:

Boring Contractor: PENNSYLVANIA DRILLING
Driller: DAVE NEWMANSAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

02/02/94 16:35

PROJECT NUMBER: 602 3.2					PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION						
BORING NUMBER: 4016					COORDINATES: NORTH 477618.74 EAST 1379138.31						
GROUND ELEVATION: 539.7					GWL: Depth	Date/Time		DATE STARTED: 16-DEC-88			
ENGINEER/GEOLOGIST: M. SLUSARSKI					Depth	Date/Time		DATE COMPLETE: 10-JAN-89			
DRILLING METHOD: CABLE-TOOL DRILLING											
D E P T H	S A M P L E	D A T E E E N O	T M E S P L E R E V E R Y	B L O W A M S P L E R E V E R Y	R E C O V E R E V E R Y	I N C H E S P L E R E V E R Y	S U Y S M C B S O L	T S F	REMARKS		
25.0 26.5	010436 12/17/88 10:38	5 5 7	5 5 7	12	MEDIUM DENSE, GREY-BROWN (10 YR 4/2) WELL GRADED GRAVELLY SAND, TRACE MEDIUM GRAVEL (.25 - .5 IN) WET					SW N/A	PID=0 ppm α =0 ppm BT=40-60 cpm
30.0 31.5	010437 12/17/88 11:45	7 8	7 8	18	MEDIUM DENSE, GREY-BROWN (10 YR 4/2) WELL GRADED GRAVELLY SAND, SOME FINE GRAVEL (.25 IN) WET					SW N/A	PID=0 ppm α =0-2 ppm BT=40-60 cpm
35.0 36.5	010438 12/17/88 13:25	19 24 25	19 24 25	14	DENSE, YELLOW-BROWN (10 YR 5/3) WELL GRADED GRAVEL SAND MIXTURE, TRACE COARSE GRAVEL (1.0 - 1.5 IN) WET					GW N/A	PID=0 ppm α =0-2 ppm BT=40-60 cpm
40.0 41.5	010439 12/17/88 13:50	3 4 8	3 4 8	12	LOOSE, GREY-BROWN (10 YR 4/2) WELL GRADED GRAVELLY SAND, GRAVEL (.25 - .50 IN) WET					SW N/A	PID=0 ppm α =0-2 ppm BT=40-60 cpm
45.0 46.5	010440 12/17/88 15:30	20 25 35	20 25 35	14	VERY DENSE, GREY-BROWN (10 YR 4/2) POORLY GRADED SAND, SOME FINE GRAVEL (LESS THAN .25 IN) WET					SP N/A	PID=0 ppm α =0-2 ppm BT=40-50 cpm
50.0 51.5	010441 12/18/88 09:00	19 17 15	19 17 15	14	DENSE, GREY-BROWN (10 YR 4/2) WELL GRADED GRAVELLY SAND, SOME MEDIUM GRAVEL (.25 - .50 IN) WET. MEDIUM DENSE, GREY-BROWN (10 YR 4/2) WELL GRADED GRAVEL (.25 - 1.0 IN), SOME SAND, WET.					SW GW N/A	PID=0 ppm α =0-2 ppm BT=40-60 cpm
55.0 56.5	010442 12/19/88 10:25	8 27 33	8 27 33	12	VERY DENSE, PALE BROWN (10 YR 6/3) WELL GRADED GRAVELLY SAND, WET.					SW N/A	PID=0 ppm α =0-2 ppm BT=40-60 cpm
60.0 61.5	010443 12/19/88 11:00	5 3 4	5 3 4	15	LOOSE, YELLOW-BROWN (10 YR 5/4) POORLY GRADED SAND, SOME GRAVEL, WET.					SP N/A	PID=0 ppm α =0-1 ppm BT=40-60 cpm
65.0 66.5	010444 12/19/88 13:30	9 3 8	9 3 8	17	MEDIUM DENSE, BROWN (10 YR 5/3) POORLY GRADED SAND, LESS THAN 5.0% GRAVEL, WET					SP N/A	PID=0 ppm α =0-1 ppm BT=40-60 cpm
70.0 71.5	010445 12/19/88 13:50	3 3 4	3 3 4	5	LOOSE, GREY-BROWN (10 YR 5/2) POORLY GRADED SAND, LESS THAN 5.0% GRAVEL, WET					SP N/A	PID=0 ppm α =0-1 ppm BT=40-60 cpm
75.0 76.5	010446 12/19/88 15:10	14 23 21	14 23 21	15	DENSE, YELLOW-BROWN (10 YR 5/6) POORLY GRADED SAND, LESS THAN 10.0 PERCENT GRAVEL, WET					SP N/A	PID=0 ppm α =0 ppm BT=40-60 cpm
80.0 81.5	010447 12/19/88 15:30	3 4 8	3 4 8	10	MEDIUM DENSE, GREY-BROWN (10 YR 5/2) POORLY GRADED SAND, LESS THAN 1.0 PERCENT GRAVEL WET					SP N/A	PID=0 ppm α =0 ppm BT=40-60 cpm
85.0 86.5	010448 12/19/88 17:00	30 33 30	30 33 30	12	VERY DENSE, DARK GREY-BROWN (10 YR 4/2), POORLY GRADED SAND, LESS THAN 5.0 PERCENT GRAVEL, WET					SP N/A	PID=0 ppm α =0 ppm BT=40-80 cpm
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

02/02/94 16:35

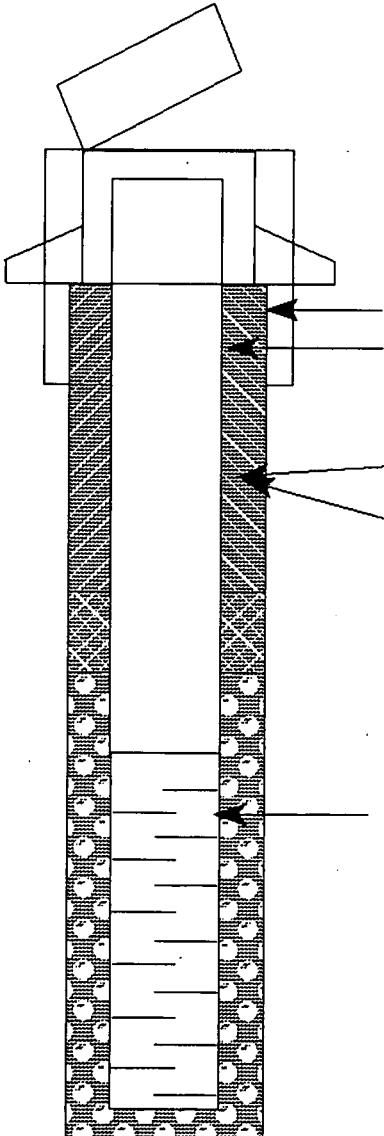
PROJECT NUMBER: 602 3.2					PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION				
BORING NUMBER: 4016					COORDINATES: NORTH 477618.74 EAST 1379138.31				
GROUND ELEVATION: 539.7					GWL: Depth	Date/Time		DATE STARTED: 16-DEC-88	
ENGINEER/GEOLOGIST: M. SLUSARSKI					Depth	Date/Time		DATE COMPLETE: 10-JAN-89	
DRILLING METHOD: CABLE-TOOL DRILLING									
DEPTH	SAMPLE	BLOW COUNT	RECOVERY	TESTS	SYNTHETIC MATERIAL	TEST TYPE	TEST METHOD	TEST RESULTS	REMARKS
95.0 96.5	010450 12/20/88 13:40	6 14 17	15	STIFF, DARK GREY (10 YR 4/1) INORGANIC CLAY, MEDIUM PLASTICITY DAMP	CL	1.25		PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm	
100.0 101.0	010451 12/20/88 15:00	29 39 39	14	VERY DENSE, OLIVE GREY (5 Y 4/1) WELL GRADED GRAVEL SAND MIXTURE, GRAVEL (.25 - 1.5 IN) WET	GW	N/A		PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm	
110.0 111.5	010453 12/20/88 17:00	20 12 11	6	MEDIUM DENSE, DARK GREY (10 YR 4/1) WELL GRADED GRAVEL SAND MIXTURE, GRAVEL (.25 - 1.5 IN) WET	GW	N/A		PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm	
115.0 116.5	010454 12/21/88 09:15	19 21 24	12	DENSE, OLIVE GREY (5 Y 4/2) POORLY GRADED FINE SAND, WET	SP	N/A		PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm	
120.0 121.5	010455 12/21/88 09:40	10 14 17	10	MEDIUM DENSE, OLIVE GRAY (5 Y 4/2), POORLY GRADED FINE SAND, WET.	SP	N/A		PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm	
130.0 131.5	010457 12/21/88 15:20	5 10 12	16	MEDIUM DENSE, OLIVE-GRAY (5 Y 4/2) POORLY GRADED, FINE SAND, WET. MEDIUM DENSE, OLIVE-GRAY (5 Y 4/2) WELL GRADED SAND, TRACE MEDIUM GRAVEL (.25 - .50 IN) WET.	SP SW	N/A N/A		PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm	
135.0 136.5	010458 12/21/88 16:50	21 44 33	18	VERY DENSE, OLIVE GRAY (5 Y 4/2) POORLY GRADED SAND, SOME FINE GRAVEL (.25 IN) WET.	SP	N/A		PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm	
140.0 141.5	010459 01/03/89 09:10	4 6 8	12	MEDIUM DENSE, OLIVE GRAY (5 Y 4/2) WELL GRADED SAND, TRACE OF COARSE GRAVEL (1.0-2.0 IN.) WET.	SW	N/A		PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm	
145.0 146.5	010460 01/03/89 13:50	18 35 34	14	VERY DENSE, OLIVE-BROWN (2.5 Y 4/4) POORLY GRADED SAND, TRACE FINE GRAVEL (LESS THAN .25 IN) WET	SP	N/A		PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm	
150.0 151.5	010461 01/03/89 14:40	5 10 10	12	MEDIUM DENSE, OLIVE-BROWN (2.5 Y 4/4) POORLY GRADED SAND, TRACE FINE GRAVEL (LESS THAN .25 IN), WET	SP	N/A		PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm	
155.0 156.5	010462 01/03/89 16:50	6 7 10	14	MEDIUM DENSE, OLIVE-BROWN (2.5 Y 4/4) POORLY GRADED SAND, TRACE MEDIUM GRAVEL (.25-.50 IN) WET.	SP	N/A		PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm	
160.0 161.5	010463 01/04/89 13:25	18 27 34	12	VERY DENSE BROWN (2.5 Y 5/2) POORLY GRADED SAND, TRACE MEDIUM GRAVEL (.25-.50 IN) WET. VERY STIFF, OLIVE-GRAY (5 Y 4/1) GRAVELLY CLAY, SOME SAND, WET.	SP CL	N/A 2.5		PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm	
NOTES:									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

TABLE E-20

EXPOSED

TABLE E-20
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	1016	COUNTY:	Hamilton
PROJECT ID:	NA	STATE:	Ohio
DATE INSTALLED:	October 16, 1987	CONTRACTOR:	NA
FIELD ENG./GEOL.:	D. Oakley	DRILLED BY:	NA
TYPE OF SEAL:	Bentonite	DRILLING METHOD:	Cable-Tool Drilling
DEVELOPEMENT METHOD:	NA	TYPE OF BIT:	Flat Head Hammer
SURVEY DATUM		SAND PACK TYPE:	NA
		WATER LEVEL/DATE:	NA

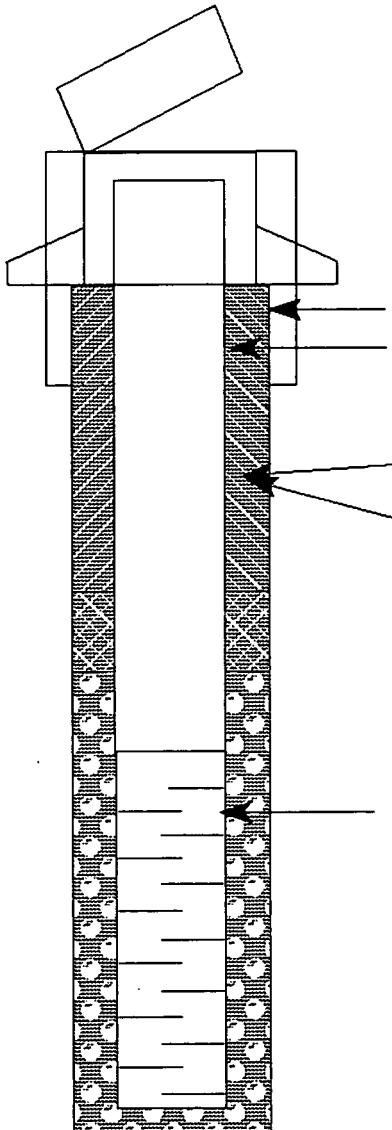


Note: Elevations in feet
above mean sea level.

- 542.4 ft, Top of Casing (Protective pipe)
- 541.85 ft, Top of Well
- 540.7 ft, Concrete Elevation
- 540.2 ft, Ground Elevation
- 10 3/8 in, Boring Diameter
- 4 in, Casing Diameter
- 2.5 Bottom Protective Pipe
- S. S. Casing Material
- Grout
- Other _____
- 8 ft, Top of Bentonite
- 22.5 ft, Bottom of Bentonite
- 10.2 ft, Top of Screen
- Well Screen
- 4 ID in, Diameter
- .01 in, Slot
- 10 Length (ft)
- S. S. Material
- 20.2 ft, Bottom of Screen
- 22.5 ft, Bottom of Boring

TABLE E-20
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	1047	COUNTY:	Hamilton
PROJECT ID:	NA	STATE:	Ohio
DATE INSTALLED:	October 17, 1987	CONTRACTOR:	NA
FIELD ENG./GEOL.:	L. Wille	DRILLED BY:	NA
TYPE OF SEAL:	Bentonite	DRILLING METHOD:	Cable-Tool Drilling
DEVELOPEMENT METHOD:	NA	TYPE OF BIT:	Flat Head Hammer
SURVEY DATUM		SAND PACK TYPE:	NA
		WATER LEVEL/DATE:	NA



571.49 ft, Top of Casing (Protective pipe)

571.07 ft, Top of Well

569.1 ft, Concrete Elevation

568.7 ft, Ground Elevation

10 3/8 in, Boring Diameter

4 in, Casing Diameter

2.5 Bottom Protective Pipe

S. S. Casing Material

Grout

Other Bentonite

0 ft, Top of Bentonite

5 ft, Bottom of Bentonite

7 ft, Top of Screen

Well Screen

4 ID in, Diameter

.01 in, Slot

10 Length (ft)

S. S. Material

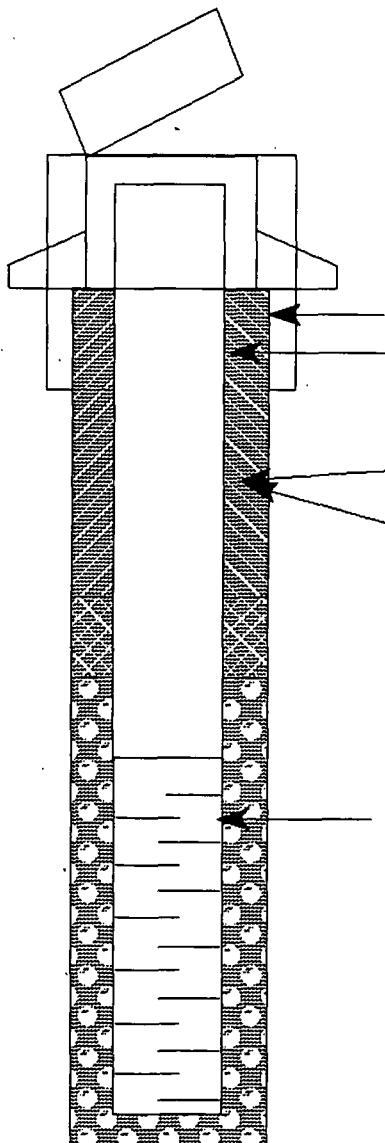
17 ft, Bottom of Screen

20 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE E-20
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 1711	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: May 30, 1991	CONTRACTOR: NA
FIELD ENG./GEOL.: J. Lear	DRILLED BY: NA
TYPE OF SEAL: Bentonite	DRILLING METHOD: Auger
DEVELOPEMENT METHOD: NA	TYPE OF BIT: Hollow Stem Auger
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA



578.97 ft, Top of Casing (Protective pipe)

578.58 ft, Top of Well

576.81 ft, Concrete Elevation

576.47 ft, Ground Elevation

10 in, Boring Diameter

4 in, Casing Diameter

2.5 Bottom Protective Pipe

S. S. Casing Material

Grout

Other _____

10.5 ft, Top of Bentonite

11 ft, Bottom of Bentonite

13 ft, Top of Screen

Well Screen

4 ID in, Diameter

.01 in, Slot

2 Length (ft)

S. S. Material

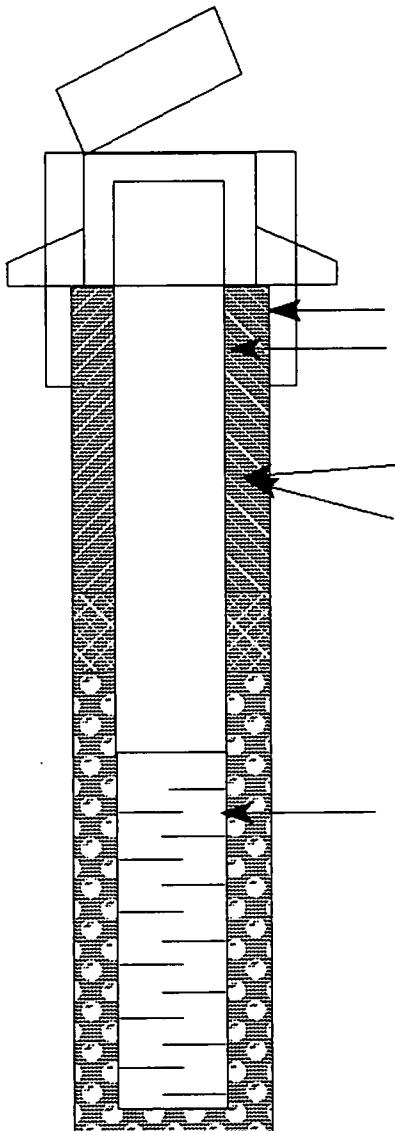
15 ft, Bottom of Screen

15.5 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE E-20
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 2014	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: NA	CONTRACTOR: NA
FIELD ENG./GEOL.: NA	DRILLED BY: NA
TYPE OF SEAL: NA	DRILLING METHOD: NA
DEVELOPEMENT METHOD: NA	TYPE OF BIT: NA
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA

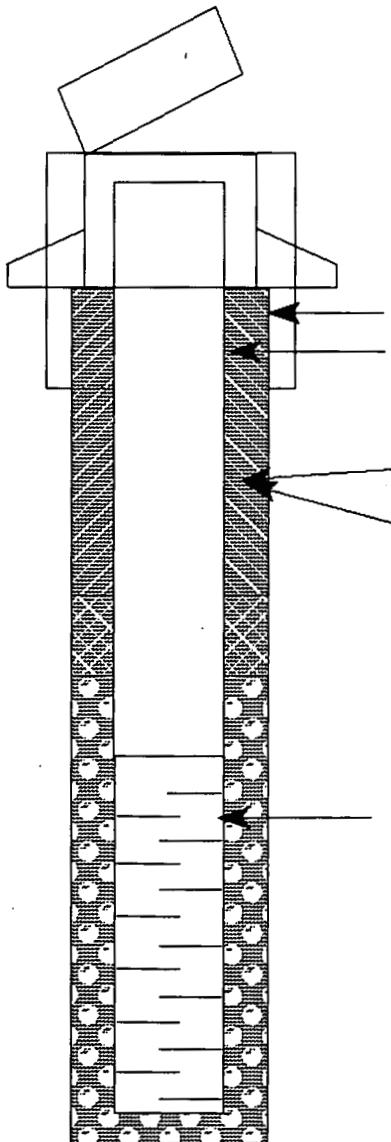


535.94	ft, Top of Casing (Protective pipe)
534.92	ft, Top of Well
533.9	ft, Concrete Elevation
NA	ft, Ground Elevation
NA	in, Boring Diameter
NA	in, Casing Diameter
NA	Bottom Protective Pipe
NA	Casing Material
<input type="checkbox"/>	Grout
<input type="checkbox"/>	Other _____
NA	ft, Top of Bentonite
NA	ft, Bottom of Bentonite
NA	ft, Top of Screen
Well Screen	
NA	in, Diameter
NA	in, Slot
NA	Length (ft)
NA	Material
NA	ft, Bottom of Screen
NA	ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE E-20
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 2047	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: January 3, 1989	CONTRACTOR: NA
FIELD ENG./GEOL.: W. Hertel	DRILLED BY: NA
TYPE OF SEAL: Bentonite	DRILLING METHOD: Cable-Tool Drilling
DEVELOPEMENT METHOD: NA	TYPE OF BIT: Flat Head Hammer
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA



570.51 ft, Top of Casing (Protective pipe)

570.03 ft, Top of Well

568.95 ft, Concrete Elevation

568.45 ft, Ground Elevation

10 3/8 in, Boring Diameter

4 in, Casing Diameter

2.5 Bottom Protective Pipe

S. S. Casing Material

Grout

Other _____

35 ft, Top of Bentonite

39.9 ft, Bottom of Bentonite

45.3 ft, Top of Screen

Well Screen

4 ID in, Diameter

.01 in, Slot

15 Length (ft)

S. S. Material

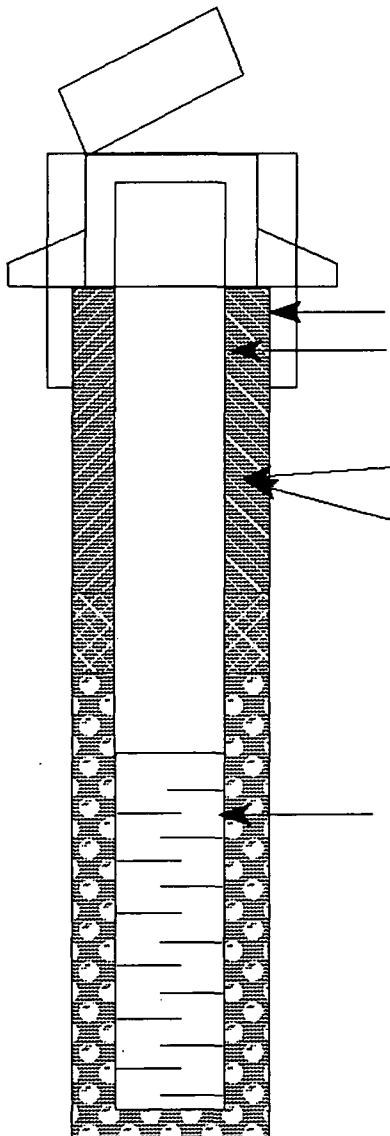
60.3 ft, Bottom of Screen

64 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE E-20
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 2402	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: December 22, 1991	CONTRACTOR: NA
FIELD ENG./GEOL.: NA	DRILLED BY: NA
TYPE OF SEAL: Bentonite	DRILLING METHOD: Cable Tool Drilling
DEVELOPEMENT METHOD: NA	TYPE OF BIT: Cable Tool
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA

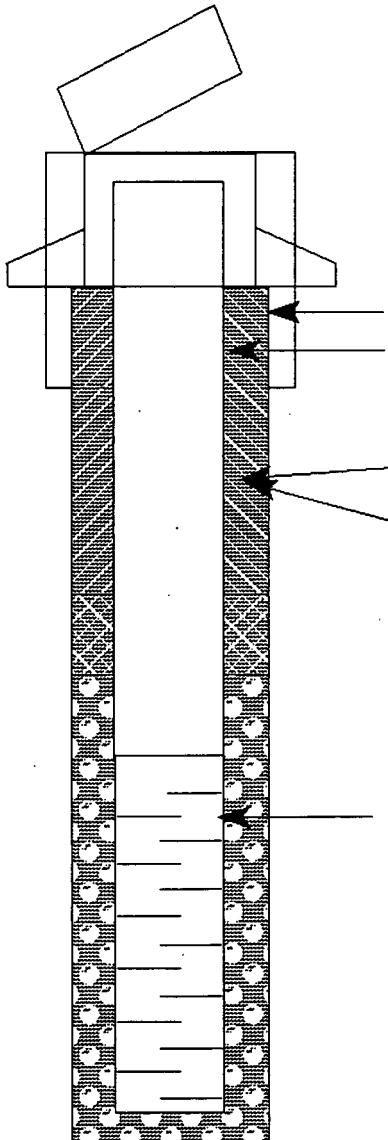


569.69 ft, Top of Casing (Protective pipe)
568.99 ft, Top of Well
NA ft, Concrete Elevation
567.1 ft, Ground Elevation
10 3/8 in, Boring Diameter
4 in, Casing Diameter
2.2 Bottom Protective Pipe
S. S. Casing Material
 Grout
 Other _____
34.5 ft, Top of Bentonite
40.5 ft, Bottom of Bentonite
45 ft, Top of Screen
 Well Screen
4 ID in, Diameter
.01 in, Slot
15 Length (ft)
S. S. Material
60 ft, Bottom of Screen
62 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE E-20
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	2955	COUNTY:	Hamilton
PROJECT ID:	20.03.05	STATE:	Ohio
DATE INSTALLED:	May 5, 1993	CONTRACTOR:	Pennsylvania Drilling
FIELD ENG./GEOL.:	Ken Geiger	DRILLED BY:	Dave Newman
TYPE OF SEAL:	Grout/Slurry	DRILLING METHOD:	Cable Tool
DEVELOPEMENT METHOD:	Bail-Surge-Bail	TYPE OF BIT:	Hammer Percussion Bit
SURVEY DATUM		SAND PACK TYPE:	10/20 Silica
		WATER LEVEL/DATE:	523.99/5-7-93

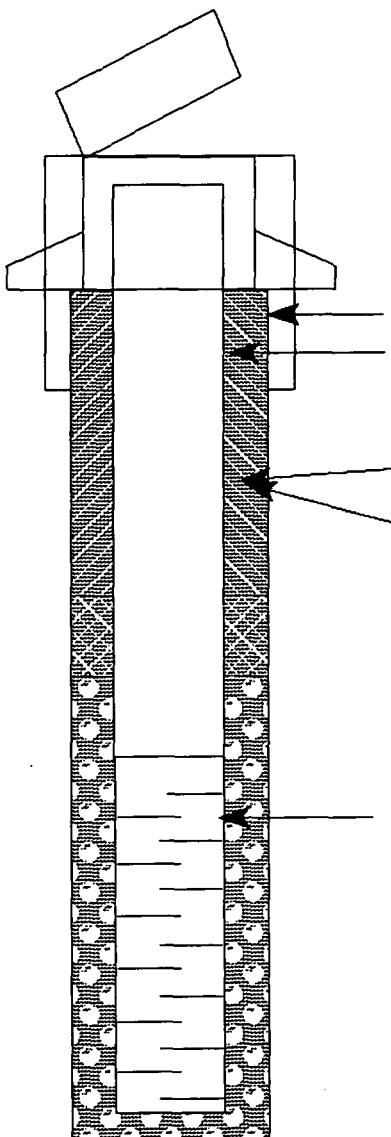


- 579.55 ft, Top of Casing (Protective pipe)
- 579.13 ft, Top of Well
- NA ft, Concrete Elevation
- 577.2 ft, Ground Elevation
- 10 3/8 in, Boring Diameter
- 4 in, Casing Diameter
- 2.5 Bottom Protective Pipe
- S. S. Casing Material
 - Grout
 - Other _____
- 1 ft, Top of Bentonite
- 40 ft, Bottom of Bentonite
- 50 ft, Top of Screen
- Well Screen
 - 4 in, Diameter
 - .01 in, Slot
 - 15 Length (ft)
 - S. S. Material
- 65 ft, Bottom of Screen
- 70 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE E-20
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 3014	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: NA	CONTRACTOR: NA
FIELD ENG./GEOL.: NA	DRILLED BY: NA
TYPE OF SEAL: NA	DRILLING METHOD: NA
DEVELOPEMENT METHOD: NA	TYPE OF BIT: NA
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA



535.97 ft, Top of Casing (Protective pipe)

543.25 ft, Top of Well

533.9 ft, Concrete Elevation

NA ft, Ground Elevation

NA in, Boring Diameter

NA in, Casing Diameter

NA Bottom Protective Pipe

NA Casing Material

Grout

Other _____

NA ft, Top of Bentonite

NA ft, Bottom of Bentonite

NA ft, Top of Screen

Well Screen

NA in, Diameter

NA in, Slot

NA Length (ft)

NA Material

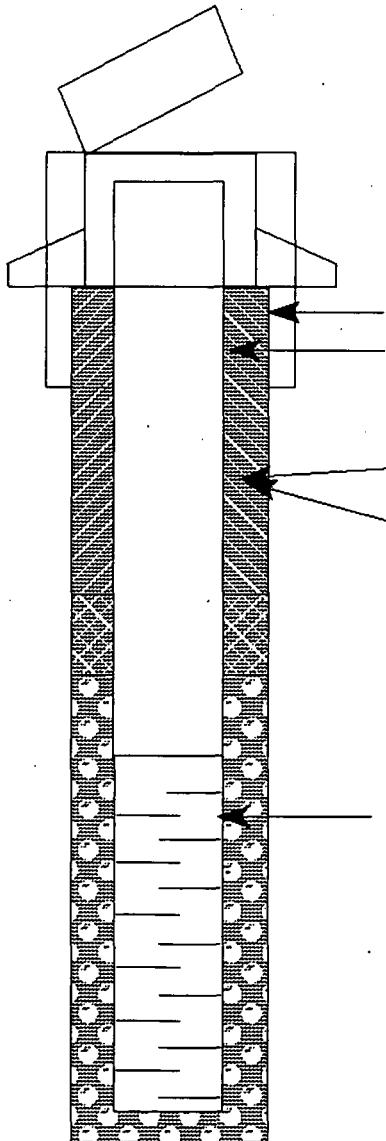
NA ft, Bottom of Screen

NA ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE E-20
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 3016	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: NA	CONTRACTOR: NA
FIELD ENG./GEOL.: NA	DRILLED BY: NA
TYPE OF SEAL: NA	DRILLING METHOD: NA
DEVELOPEMENT METHOD: NA	TYPE OF BIT: NA
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA

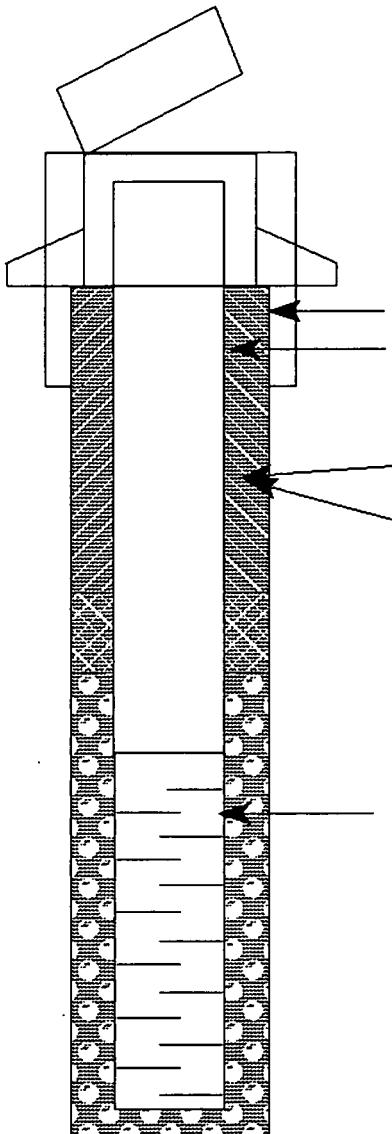


- 542.25 ft, Top of Casing (Protective pipe)
- 541.98 ft, Top of Well
- 540.6 ft, Concrete Elevation
- NA ft, Ground Elevation
- NA in, Boring Diameter
- NA in, Casing Diameter
- NA Bottom Protective Pipe
- NA Casing Material
 - Grout
 - Other _____
- NA ft, Top of Bentonite
- NA ft, Bottom of Bentonite
- NA ft, Top of Screen
- Well Screen
- NA in, Diameter
- NA in, Slot
- NA Length (ft)
- NA Material
- NA ft, Bottom of Screen
- NA ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE E-20
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 4014	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: November 9, 1988	CONTRACTOR: NA
FIELD ENG./GEOL.: E. Tollinger	DRILLED BY: NA
TYPE OF SEAL: Grout	DRILLING METHOD: Cable-Tool Drilling
DEVELOPEMENT METHOD: NA	TYPE OF BIT: Flat Head Hammer
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA



535.88 ft, Top of Casing (Protective pipe)
535.43 ft, Top of Well

NA ft, Concrete Elevation

533.4 ft, Ground Elevation

10 3/8 in, Boring Diameter

4 in, Casing Diameter

2.5 Bottom Protective Pipe

S. S. Casing Material

Grout

Other _____

0 ft, Top of Bentonite

121 ft, Bottom of Bentonite

129.5 ft, Top of Screen

Well Screen

4 ID in, Diameter

.01 in, Slot

10 Length (ft)

S. S. Material

139.5 ft, Bottom of Screen

150 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE E-21

250000

TABLE E-21A
INACTIVE FLYASH PILE
GROUNDWATER ELEVATION DATA^a, 1988 - 1992
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Year	Well No.	January	February	March	April	May	June	July	August	September	October	November	December
1988	1016	519.62	520.73	521.69	522.35	521.44	520.61	519.96	519.45	519.17	518.98	518.02	NMT ^b
1988	1047	557.89	562.53	565.94	555.93	561.67	561.51	559.53	554.84	556.15	556.05	553.86	556.19
1988	2016	519.70	520.83	521.79	522.35	521.44	520.61	519.95	519.44	518.89	518.41	518.06	517.89
1989	1016	518.17	519.58	521.13	523.23	524.15	524.50	523.25	523.34	521.98	521.48	521.36	520.77
1989	1047	558.10	561.15	566.05	559.09	565.92	565.46	562.57	560.53	559.98	558.21	559.85	553.60
1989	1048	565.46	566.33	568.90	569.09	569.52	568.45	566.28	564.82	565.46	563.35	566.34	565.10
1989	2016	519.13	519.57	521.12	523.23	524.14	524.49	523.28	522.40	522.00	519.94	521.44	520.86
1989	2047	518.68	519.49	520.68	522.80	523.85	524.41	523.26	522.42	522.00	521.46	521.19	520.90
1990	1016	521.56	523.03	524.18	524.57	525.74	525.37	524.46	NMT	NMT	523.51	523.73	523.94
1990	1047	563.13	565.77	560.32	560.43	567.40	564.16	563.51	562.26	560.15	555.29	562.61	565.00
1990	2016	521.57	523.50	524.19	524.58	525.77	525.37	524.48	523.43	522.70	523.54	523.75	523.94
1990	2047	521.46	522.82	523.93	524.31	525.31	525.31	526.46	523.56	522.82	523.45	523.70	524.22
1991	1016	525.36	525.57	525.57	NMT	525.09	NMT	523.98	522.33	521.95	521.07	520.44	519.77
1991	1047	566.82	566.01	567.05	NMT	563.73	NMT	559.79	558.47	558.03	556.90	556.49	556.40
1991	1711	NMT	NMT	NMT	NMT	NMT	NMT	562.34	562.36	562.36	562.33	562.37	562.36
1991	2016	525.21	525.59	525.60	NMT	525.13	NMT	523.00	522.33	521.97	521.09	520.44	519.82
1991	2047	525.14	525.53	525.51	NMT	525.24	NMT	523.12	522.41	521.99	521.00	520.46	519.77
1992	1016	520.12	520.25	520.09	520.73	NMT	519.92	520.71	520.36	520.03	520.01	520.13	521.11
1992	1047	556.09	560.10	562.61	565.31	NMT	565.65	561.77	562.11	560.23	559.45	559.27	562.17
1992	1711	562.36	562.33	562.35	NMT	NMT	562.38	562.20	562.18	DRY	DRY	DRY	562.20
1992	2016	520.12	520.26	520.09	520.79	NMT	NMT	NMT	NMT	NMT	NMT	NMT	521.13

See footnotes at end of table.

TABLE E-21A
(Continued)

Year	Well No.	January	February	March	April	May	June	July	August	September	October	November	December
1992	2047	519.86	520.13	520.09	520.50	NMT	519.89	520.42	519.80	519.93	519.93	519.93	520.83
MISCELLANEOUS GROUNDWATER ELEVATION DATA													
1988	1025	NMT	569.82	570.33	570.04	561.54	568.34	570.85	571.07	571.16	570.88	570.75	570.63
1988	1064	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	559.92
1988	1080	NMT	NMT	NMT	NMT	560.15	567.24	567.55	560.89	567.71	567.83	567.73	568.18
1988	1081	575.10	575.95	576.69	576.89	575.49	575.35	575.05	575.04	574.95	574.71	574.68	575.05
1988	2068	517.88	518.34	519.34	520.10	520.17	519.75	518.81	518.17	517.52	517.13	516.50	516.58
1989	1025	570.34	563.52	570.48	569.89	571.37	571.73	571.75	571.95	DRY	570.27	571.62	570.84
1989	1064	566.90	577.59	577.35	577.55	577.06	574.76	573.94	NMT	573.44	571.12	573.28	572.46
1989	1080	568.61	568.40	567.77	NMT	568.95	568.74	568.06	568.05	566.85	566.62	568.66	NMT
1989	1081	575.73	575.87	576.69	576.65	576.72	575.25	575.64	570.27	575.51	575.35	575.53	575.10
1989	2068	516.43	517.38	518.45	520.65	522.20	523.52	522.80	521.94	521.14	519.17	519.98	519.75
1989	2106	NMT	518.78	520.45	522.23	523.09	523.43	522.40	521.51	NMT	519.07	520.35	519.97
1990	1025	570.63	NMT	NMT	570.95	570.38	571.63	571.84	567.72	572.08	572.27	569.76	571.57
1990	1064	573.71	576.65	NMT	575.50	575.41	574.95	NMT	573.03	572.98	565.36	574.30	576.57
1990	1080	567.98	568.72	NMT	568.72	564.65	568.64	NMT	568.37	568.69	567.36	NMT	569.46
1990	1081	575.63	563.32	NMT	576.00	577.49	576.13	576.07	575.79	575.71	577.05	575.75	NMT
1990	2068	519.49	520.14	NMT	522.23	522.74	523.68	523.02	522.66	521.59	521.59	521.85	521.85
1990	2106	520.57	521.75	522.81	523.05	524.29	523.65	523.20	522.32	521.84	522.66	522.35	522.62
1990	2385	NMT	NMT	NMT	NMT	524.11	519.57	523.73	523.07	522.22	522.46	522.73	522.83
1990	2397	NMT	NMT	NMT	NMT	NMT	NMT	NMT	522.61	521.93	521.99	521.99	522.21
1991	1025	571.37	566.77	NMT	NMT	NMT	570.50	571.58	571.89	NMT	572.11	572.19	571.59
1991	1032	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	559.11	559.10	559.49	
1991	1064	579.80	579.37	579.57	NMT	NMT	575.18	NMT	573.24	NMT	NMT	NMT	

See footnotes at end of table.

E-21-2

TABLE E-21A
(Continued)

Year	Well No.	January	February	March	April	May	June	July	August	September	October	November	December
MISCELLANEOUS GROUNDWATER ELEVATION DATA (continued)													
1991	1080	569.21	568.91	NMT	NMT	NMT	565.70	564.22	NMT	NMT	NMT	NMT	NMT
1991	1081	NMT	NMT	NMT	NMT	NMT	576.54	NMT	NMT	NMT	NMT	NMT	NMT
1991	1907	NMT	NMT	NMT	NMT	NMT	NMT	DRY	NMT	NMT	NMT	NMT	NMT
1991	2068	524.12	524.08	524.14	NMT	NMT	523.41	521.98	520.74	NMT	519.36	518.68	517.85
1991	2106	524.05	522.99	524.35	NMT	NMT	523.34	NMT	521.21	520.90	NMT	NMT	NMT
1991	2385	524.71	524.10	524.73	NMT	524.34	NMT	522.45	521.71	521.28	520.40	519.74	519.00
1991	2397	524.46	524.38	524.26	NMT	NMT	523.38	521.97	521.20	520.62	519.79	519.08	518.27
1992	1025	572.19	568.27	NMT	NMT	NMT	570.89	565.54	572.03	572.39	571.88	571.64	571.29
1992	1032	561.02	559.05	559.09	559.50	NMT	560.49	561.05	559.17	559.46	560.17	560.88	559.16
1992	2068	517.60	517.60	517.44	517.56	NMT	517.29	518.63	519.52	519.07	518.71	518.68	519.37
1992	2385	518.98	519.05	518.89	519.23	NMT	519.20	NMT	519.91	519.87	519.47	519.49	520.25
1992	2397	517.99	518.07	517.95	518.18	NMT	518.63	518.91	NMT	519.33	519.01	519.00	519.63

^aFeet above Mean Sea Level

^bNo measurement taken

E-21-3

0000128

TABLE E-21B

**INACTIVE FLYASH PILE
GROUNDWATER ELEVATION DATA^a, 1993
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT**

Well No.	03/18/93	03/23/93	04/09/93	04/19/93	05/07/93	05/19/93	06/02/93	06/21/93	07/08/93	07/19/93	08/02/93	08/16/93
1016	522.93	523.06	523.40	523.50	523.70	523.73	522.73	522.81	522.33	521.91	521.71	521.42
1047	566.48	566.50	565.38	566.27	NMT ^b	564.33	563.23	562.90	562.03	561.03	559.80	558.51
1711	563.55	563.56	563.52	563.56	563.52	563.26	563.00	562.72	562.56	562.40	562.37	DRY
2016	522.94	523.02	523.39	523.53	523.69	523.71	522.75	522.83	521.20	521.95	520.62	521.43
2047	522.51	522.56	523.13	523.25	523.48	523.51	522.77	522.78	522.31	521.47	521.71	521.34
2402	523.39	523.47	523.96	524.04	524.30	524.35	523.45	522.44	523.93	522.44	522.24	521.89
2955	NMT	NMT	NMT	NMT	523.99	524.01	NMT	523.15	522.71	522.23	522.09	521.69

^aFeet above mean sea level

^bNo measurement taken

E-214

000423

6509

Appendix F
South Field

ESP000

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KEY TO DATA TABLES**FLTD Filtered Status of the Sample (applies to water samples)**

- FILT Filtered sample; filtered status identified on Request for Analysis/Chain of Custody
- UNFI Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody
- *F Filtered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.
- *U Unfiltered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.
- UNKN Unknown; filtered status could not be determined.

L Analytical Support Level (ASL)

The analytical support level for sample analyses and data validation, defined as follows:

- A *Qualitative Field Analysis* - Analogous to EPA analytical level 1.
- B *Qualitative, Semi-Quantitative, and Quantitative Analyses* - Analogous to EPA analytical level 2.
- C *Quantitative with fully defined QA/QC* - Laboratory analyses generated with full QA/QC checks of types and frequencies specified for ASL D according to FEMP-specified analytical protocols for radiological and nonradiological parameters. The analytical methods are identical to ASL D for QA/QC sample analysis and method performance criteria. However, the data package does not typically contain raw instrument output but does include summaries of QA/QC sample results. Laboratories are required to retain, in the project file, raw instrument data to upgrade ASL C reports to ASL D. Analogous to EPA analytical level 3.
- D *Confirmational with complete QA/QC and reporting* - Provides data generated with a full complement of QA/QC checks of specified types and frequencies according to FEMP-specified analytical protocols for radiological and nonradiological parameters. Analogous to EPA analytical level 4.
- E *Nonstandard* - Analyses by nonstandard protocols that often require method development or validation. Analogous to EPA analytical level 5.

NOTE: The number 3 is sometimes used to indicate ASL C. Likewise, the numbers 4 and 5 are sometimes used to indicate ASLs D and E, respectively.

VQ Data Validation Qualifier

- J Analyte was analyzed for and positively identified, but the associated numerical value may not be consistent with the amount present in the environmental sample.

KEY TO DATA TABLES
(continued)

VQ Data Validation Qualifier (continued)

- N** Analysis indicates that an analyte is present and there are strong indications that the identity is correct.
- R** Data are unusable for any purpose. Analyte was analyzed for, but the presence or absence of the analyte was not verified.
- U** Analyte was analyzed for and was not present above the level of the associated value. Associated numerical value indicates the approximate concentration necessary to detect the analyte in the sample.
- UJ** This is a combination of the U and J qualifiers. Analyte was analyzed for and was not present above the level of the associated value. The associated value may not accurately or precisely represent the concentration necessary to detect the analyte in the sample.
- No data validation qualifier assigned.

TABLE F-1

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TABLE F-1A
SOUTH FIELD
SUMMARY OF RI/FS SAMPLE COLLECTION ACTIVITIES
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

F-1-1

6509

Location	Sample No.	Date Collected	Radionuclides	Herbicide Organics	Dioxins/ Furans	Pest/PCB ^a	VOC ^b	SVOC ^c	General Chemistry	Metals	TCLP ^d
GROUNDWATER SAMPLES											
1046	003089	4/13/88	X ^e	-	-	-	-	-	X	X	-
	003370	7/24/88	X	-	-	-	-	-	X	X	-
	003649	10/23/88	X	-	-	-	-	-	X	X	-
	003854	1/22/89	X	-	-	-	-	-	X	X	-
	066829	12/12/89	X	-	-	-	-	-	-	-	-
1065	003860	1/22/89	X	-	-	-	-	-	X	X	-
	003136	4/14/88	X	-	-	-	X	-	X	X	-
	066834	12/13/89	X	-	-	-	-	-	-	-	-
1433	047040	11/16/92	X	-	-	X	X	X	X	X	-
	047044	11/30/92	Gross Alpha/Beta only	-	-	X	X	X	X	X	-
	047048	12/2/92	X	-	-	-	-	-	-	-	-
1516	046938	7/17/90	Total Uranium only	-	-	-	-	-	-	-	-
	046939	7/17/90	-	-	-	-	-	-	nitrate only	-	-
	046940	8/21/90	-	-	-	-	-	-	nitrate only	-	-
	046941	8/21/90	Total Uranium only	-	-	-	-	-	-	-	-
1517	046944 (duplicate of 046945)	7/17/90	Total Uranium only	-	-	-	-	-	-	-	-
	046945	7/17/90	X	-	-	-	X	X	nitrate only	-	-
	046946	8/21/90	Total Uranium only	-	-	-	-	-	-	-	-
	046947	8/21/90	-	-	-	-	-	-	nitrate only	-	-
1518	046963	7/17/90	-	-	-	-	-	-	nitrate only	-	-
	046964	8/21/90	-	-	-	-	-	-	nitrate only	-	-
	046965	8/21/90	Total Uranium only	-	-	-	-	-	-	-	-

See footnotes at end of table

TABLE F-1A
(Continued)

Location	Sample No.	Date Collected	Radionuclides	Herbicide Organics	Dioxins/Furans	Pest/PCB ^a	VOC ^b	SVOC ^c	General Chemistry	Metals	TCLP ^d
GROUNDWATER SAMPLES (Continued)											
2014	003064	3/28/88	X	-	-	X	X	X	X	X	-
	003384	7/28/88	X	-	-	-	-	-	X	X	-
	003673	11/6/88	X	-	-	-	-	-	X	X	-
	003869	1/31/89	X	-	-	-	-	-	X	X	-
	004028	1/31/89	-	-	-	X	-	X	-	-	-
	004151	7/26/89	X	-	-	-	-	-	X	X	-
	004211	4/1/90	X	-	-	-	-	-	X	X	-
2046	003997	2/2/89	X	-	-	-	-	-	X	X	-
	004097	5/10/89	X	-	-	-	-	-	X	X	-
	004159	7/28/89	X	-	-	-	-	-	X	X	-
	004219	4/3/90	X	-	-	-	-	-	X	X	-
2048	003994	2/9/89	X	-	-	-	-	-	X	X	-
	004100	5/2/89	X	-	-	-	-	-	X	X	-
2065	003095	4/19/88	X	-	-	X	X	X	X	X	-
	003438	8/4/88	X	-	-	-	-	-	X	X	-
	003693	11/8/88	X	-	-	-	-	-	X	X	-
	003538 (duplicate of 003884)	2/2/89	X	-	-	-	-	-	X	X	-
	Q03544	2/2/89	-	-	-	X	-	X	-	-	-
	003884	2/2/89	X	-	-	-	-	-	X	X	-
	004163	7/30/89	X	-	-	-	-	-	X	X	-
	004168 (duplicate of 004163)	7/30/89	X	-	-	-	-	-	X	X	-
	004225	4/9/90	X	-	-	-	-	-	X	X	-

See footnotes at end of table

TABLE F-1A
(Continued)

Location	Sample No.	Date Collected	Radionuclides	Herbicide Organics	Dioxins/ Furans	Pest/PCB ^a	VOC ^b	SVOC ^c	General Chemistry	Metals	TCLP ^d
GROUNDWATER SAMPLES (Continued)											
2385	004192	5/6/90	X	-	-	-	-	-	X	X	-
	004303	7/10/90	X	-	-	-	-	-	X	X	-
2401	038375	6/3/92	-	-	-	-	-	-	X	X	-
3014	003084	4/8/88	X	-	-	-	-	-	X	X	-
	003385	7/28/88	X	-	-	-	-	-	X	X	-
	003672	11/6/88	X	-	-	-	-	-	X	X	-
	003870	1/31/89	X	-	-	-	-	-	X	X	-
	004239	4/1/90	X	-	-	-	-	-	X	X	-
3045	004198	5/23/90	X	-	-	-	-	-	X	X	-
3046	004207	6/15/90	X	-	-	-	-	-	X	X	-
	004332	8/24/90	X	-	-	-	-	-	X	X	-
3065	003995	1/25/89	X	-	-	-	-	-	X	X	-
	004098	5/31/89	X	-	-	-	-	-	X	X	-
	004249	4/9/90	X	-	-	-	-	-	X	X	-
3385	004309	7/24/90	X	-	-	-	-	-	X	X	-
	004363	1/10/91	X	-	-	-	-	-	X	X	-
4014	003871	1/31/89	X	-	-	-	-	-	X	X	-
	004089	5/1/89	X	-	-	-	-	-	X	X	-
	066866	12/13/89	X	-	-	-	-	-	-	-	-
4016	003996	1/20/89	X	-	-	-	-	-	X	X	-

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See footnotes at end of table

TABLE F-1A
(Continued)

Location	Sample No.	Sample Interval (ft) ^g	Radionuclides	Herbicide Organics	Dioxins/Furans	Pest/PCB ^a	VOC ^b	SVOC ^c	General Chemistry	Metals	TCLP ^d
SURFACE SAMPLES											
Zone 3	005001	0.0-2.0	X	-	-	-	-	-	-	-	-
SUBSURFACE SAMPLES											
1014	007354	1.5-3.0	X	-	-	-	-	-	-	-	-
1046	008014	0.0-1.5	X	-	-	-	-	-	-	-	-
	008024	15.0-16.5	X	-	-	-	-	-	-	-	-
	008025	15.0-16.5	X	-	-	-	-	-	-	-	-
	098000	0.0-0.5	Total Uranium only	-	-	-	-	-	-	-	-
1407	098001	0.5-1.0		-	-	-	-	-	-	-	-
	098002	1.5-2.0		-	-	-	-	-	-	-	-
	098003	3.0-3.5		-	-	-	-	-	-	-	-
	098004	4.5-5.0		-	-	-	-	-	-	-	-
	098006	6.0-6.5		-	-	-	-	-	-	-	-
	098008	7.5-8.0		-	-	-	-	-	-	-	-
	098009	8.0-8.5		-	-	-	-	-	-	-	-
1433	047019	2.0-5.0	X	-	-	-	-	-	-	-	-
1455	055900	0.0-3.0	X	-	-	-	-	-	-	-	-
	055901	0.0-3.75	X	-	-	-	-	-	-	-	-
1456	055902	0.0-3.75	X	-	-	-	-	-	-	-	-
	055903	0.0-4.25	X	-	-	-	-	-	-	-	-
	055906	3.75	-	-	-	X	X	X	-	X	-
1457	055904	0.0-3.75	X	-	-	-	-	-	-	-	-
	055905	0.0-4.25	X	-	-	-	-	-	-	-	-
1458	055913	0.0-4.0	X	-	-	-	-	-	-	-	-
	055914	0.0-4.5	X	-	-	-	-	-	-	-	-

See footnotes at end of table

TABLE F-1A
(Continued)

F-1-5

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Location	Sample No.	Sample Interval (ft) ^g	Radionuclides	Herbicide Organics	Dioxins/Furans	Pest/PCB ^a	VOC ^b	SVOC ^c	General Chemistry	Metals	TCLP ^d
SUBSURFACE SAMPLES (Continued)											
1459	055915	0.0-5.0	X	-	-	-	-	-	-	-	-
	055916	0.0-6.0	X	-	-	-	-	-	-	-	-
	055919	5.0	-	-	-	X	X	X	-	X	-
1460	055917	0.0-3.5	X	-	-	-	-	-	-	-	-
	055918	0.0-4.25	X	-	-	-	-	-	-	-	-
1461	055926	0.0-4.0	X	-	-	-	-	-	-	-	-
	055927	0.0-5.0	X	-	-	-	-	-	-	-	-
1462	055928	0.0-4.0	X	-	-	-	-	-	-	-	-
	055929	0.0-5.0	X	-	-	-	-	-	-	-	-
	055932	4.0	-	-	-	X	X	X	-	X	-
1463	055930	0.0-3.5	X	-	-	-	-	-	-	-	-
	055931	0.0-4.5	X	-	-	-	-	-	-	-	-
1464	055939	0.0-3.75	X	-	-	-	-	-	-	-	-
	055940	0.0-4.5	X	-	-	-	-	-	-	-	-
1465	055941	0.0-3.5	X	-	-	-	-	-	-	-	-
	055942	0.0-4.5	X	-	-	-	-	-	-	-	-
	055945	3.5	-	-	-	X	X	X	-	X	-
1466	055943	0.0-3.0	X	-	-	-	-	-	-	-	-
	055944	0.0-4.5	X	-	-	-	-	-	-	-	-
1467	055952	0.0-2.5	X	-	-	-	-	-	-	-	-
	055953	0.0-3.5	X	-	-	-	-	-	-	-	-
1468	055954	0.0-2.5	X	-	-	-	-	-	-	-	-
	055955	0.0-3.5	X	-	-	-	-	-	-	-	-
	055959	2.5	-	-	-	-	X	X	X	-	X

See footnotes at end of table

TABLE F-1A
(Continued)

Location	Sample No.	Sample Interval (ft) ^g	Radionuclides	Herbicide Organics	Dioxins/Furans	Pest/PCB ^a	VOC ^b	SVOC ^c	General Chemistry	Metals	TCLP ^d
SUBSURFACE SAMPLES (Continued)											
1469	055956	0.0-2.5	X	-	-	-	-	-	-	-	-
	055957	0.0-3.5	X	-	-	-	-	-	-	-	-
1470	055966	0.0-3.0	X	-	-	-	-	-	-	-	-
	055967	0.0-4.0	X	-	-	-	-	-	-	-	-
1471	055968	0.0-4.0	X	-	-	-	-	-	-	-	-
	055969	0.0-5.5	X	-	-	-	-	-	-	-	-
	055972	4.0	-	-	-	X	X	X	-	X	-
1472	055970	0.0-4.0	X	-	-	-	-	-	-	-	-
	055971	0.0-5.0	X	-	-	-	-	-	-	-	-
1473	055979	0.0-3.5	X	-	-	-	-	-	-	-	-
	055980	0.0-5.0	X	-	-	-	-	-	-	-	-
	055981	0.0-10.0	X	-	-	-	-	-	-	-	-
	055982	0.0-3.5	X	-	-	-	-	-	-	-	-
1474	055983	0.0-5.0	X	-	-	-	-	-	-	-	-
	055984	0.0-10.0	X	-	-	-	-	-	-	-	-
	055988	0.0-10.0	-	-	-	X	X	X	-	X	-
1475	055985	0.0-3.75	X	-	-	-	-	-	-	-	-
	055986	0.0-5.0	X	-	-	-	-	-	-	-	-
	055987	0.0-10.0	X	-	-	-	-	-	-	-	-
1516	055371	0.0-0.5	X	-	-	-	-	-	-	-	-
	055373	1.0-1.5	X	-	-	-	-	-	-	-	-
	055375	2.0-2.5	X	-	-	-	-	-	-	-	-
	055377	3.0-3.5	X	-	-	-	-	-	-	-	-
	055379	4.0-4.5	X	-	-	-	-	-	-	-	-
	055383	6.0-6.5	X	-	-	-	-	-	-	-	-

See footnotes at end of table

TABLE F-1A
(Continued)

Location	Sample No.	Sample Interval (ft) ^g	Radionuclides	Herbicide Organics	Dioxins/Furans	Pest/PCB ^a	VOC ^b	SVOC ^c	General Chemistry	Metals	TCLP ^d
SUBSURFACE SAMPLES (Continued)											
(Continued)											
1516 (Continued)	055387	8.0-8.5	X	-	-	-	-	-	-	-	-
	055389	9.0-9.5	X	-	-	-	-	-	-	-	-
	055391	10.0-10.5	X	-	-	-	-	-	-	-	-
	055393	11.0-11.5	X	-	-	-	-	-	-	-	-
	055395	12.0-12.5	X	-	-	-	-	-	-	-	-
	055399	14.0-14.5	X	-	-	-	-	-	-	-	-
	055401	15.0-15.5	X	-	-	-	-	-	-	-	-
	055405	17.0-17.5	X	-	-	-	-	-	-	-	-
	055407	18.0-18.5	X	-	-	-	-	-	-	-	-
	055409	19.0-19.5	X	-	-	-	-	-	-	-	-
1517	055411	NA ^h	-	-	-	-	-	-	-	-	X
	055413	0.0-0.5	X	-	-	-	-	-	-	-	-
	055416	1.5-2.0	X	-	-	-	-	-	-	-	-
	055419	3.0-3.5	X	-	-	-	-	-	-	-	-
	055422	4.5-5.0	X	-	-	-	-	-	-	-	-
	055425	6.0-6.5	X	-	-	-	-	-	-	-	-
	055427	7.0-7.5	X	-	-	-	-	-	-	-	-
	055429	8.0-8.5	X	-	-	-	-	-	-	-	-
	055431	9.0-9.5	X	-	-	-	-	-	-	-	-
	055433	10.0-10.5	X	-	-	-	-	-	-	-	-
	055437	12.0-12.5	X	-	-	-	-	-	-	-	-
	055440	13.5-14.0	X	-	-	-	-	-	-	-	-
	055443	15.0-15.5	X	-	-	-	-	-	-	-	-
	055446	16.5-17.0	X	-	-	-	-	-	-	-	-

See footnotes at end of table

TABLE F-1A
(Continued)

Location	Sample No.	Sample Interval (ft) ^g	Radionuclides	Herbicide Organics	Dioxins/Furans	Pest/PCB ^a	VOC ^b	SVOC ^c	General Chemistry	Metals	TCLP ^d
SUBSURFACE SAMPLES (Continued)											
1517 (Continued)	055449	18.0-18.5	X	-	-	-	-	-	-	-	-
	055451	19.0-19.5	X	-	-	-	-	-	-	-	-
	055454	0.0-0.5	X	-	-	-	-	-	-	-	-
	055456	1.0-1.5	X	-	-	-	-	-	-	-	-
	055458	2.0-2.5	X	-	-	-	-	-	-	-	-
	055460	3.0-3.5	X	-	-	-	-	-	-	-	-
	055462	4.0-4.5	X	-	-	-	-	-	-	-	-
	055464	5.0-5.5	X	-	-	-	-	-	-	-	-
	055466	6.0-6.5	X	-	-	-	-	-	-	-	-
	055468	7.0-7.5	X	-	-	-	-	-	-	-	-
	055470	8.0-8.5	X	-	-	-	-	-	-	-	-
	055472	9.0-9.5	X	-	-	-	-	-	-	-	-
	055474	10.0-10.5	X	-	-	-	-	-	-	-	-
	055476	11.0-11.5	X	-	-	-	-	-	-	-	-
	055478	12.0-12.5	X	-	-	-	-	-	-	-	-
	055481	13.5-14.0	X	-	-	-	-	-	-	-	-
	055483	14.5-15.0	X	-	-	-	-	-	-	-	-
	055485	15.5-16.0	X	-	-	-	-	-	-	-	-
	055487	16.5-17.0	X	-	-	-	-	-	-	-	-
	055489	17.5-18.0	X	-	-	-	-	-	-	-	-
	055491	18.5-19.0	X	-	-	-	-	-	-	-	-
	055493	19.5-20.0	X	-	-	-	-	-	-	-	-
1712	061319	1.5-2.0	-	-	-	-	-	-	-	-	X

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See footnotes at end of table

TABLE F-1A
(Continued)

Location	Sample No.	Sample Interval (ft) ^g	Radionuclides	Herbicide Organics	Dioxins/Furans	Pest/PCB ^a	VOC ^b	SVOC ^c	General Chemistry	Metals	TCLP ^d
SUBSURFACE SAMPLES (Continued)											
1713	061324	1.5-2.0	-	-	-	-	-	-	-	-	X
1714	061329	1.5-2.0	-	-	-	-	-	-	-	-	X
1715	061334	1.5-2.0	-	-	-	-	-	-	-	-	X
1792	067343	1.5-3.0	-	-	X	X	X	X	-	X	-
	067346	6.0-7.5	-	-	X	X	X	X	-	X	-
	067350	12.0-13.5	-	-	X	X	X	X	-	X	-
	067353	16.5-18.0	-	-	X	X	X	X	-	X	-
	067356	21.5-23.0	-	-	X	X	X	X	-	X	-
	067362	28.0-29.5	-	-	-	-	-	-	-	-	X
1793	067333	3.0-4.5	-	-	X	X	X	X	-	X	-
	067335	6.0-7.5	-	-	-	-	-	-	-	-	X
1794	067324	0.0-1.0	-	-	X	X	X	X	-	X	-
	067326	1.5-2.0	-	-	-	-	-	-	-	-	X
	067328	2.0-2.5	-	-	X	X	X	X	-	X	-
1795	067367	0.0-1.0	-	-	-	X	X	X	-	X	X
	067369	2.0-3.0	-	-	-	-	-	-	-	-	organics only
	067370	3.0-4.0	-	-	X	X	X	X	-	X	-
1882	067802	1.5-2.0	-	-	-	-	-	-	-	-	organics only
1883	067801	1.5-2.0	-	-	-	-	-	-	-	-	organics only

See footnotes at end of table

TABLE F-1A
(Continued)

Location	Sample No.	Sample Interval (ft) ^g	Radionuclides	Herbicide Organics	Dioxins/Furans	Pest/PCB ^a	VOC ^b	SVOC ^c	General Chemistry	Metals	TCLP ^d
SUBSURFACE SAMPLES (Continued)											
1884	067804	1.5-2.0	-	-	-	-	-	-	-	-	organics only
1885	067803	1.5	-	-	-	-	-	-	-	-	organics only
2046	008950	30.0-31.5	X	-	-	-	-	-	-	-	-
	008956	61.0-62.5	Total Uranium only	-	-	-	-	-	-	-	-
2065	007184	13.5-15.0	X	-	-	-	-	-	-	-	-
	007191	35.0-36.5	X	-	-	-	-	-	-	-	-
2385	032622	4.5-6.0	X	-	-	-	-	-	-	-	-
	032639	45.0-46.5	X	-	-	-	-	-	-	-	-
3046	032709	100.0-101.5	X	-	-	-	-	-	-	-	-
3385	032725	80.0-81.5	X	-	-	-	-	-	-	-	-
4014	010393	65.0-66.5	X	-	-	-	-	-	-	-	-
	010408	140.0-141.5	X	-	-	-	-	-	-	-	-
SPA-0	039170	NA	X	-	-	-	-	-	-	-	-
SPA-10	039171	0.0-10.0	X	-	-	-	-	-	-	-	-

^aPest/PCB = Pesticide/Polychlorinated Biphenyl

^fSample not analyzed for this parameter

^bVOC = Volatile Organic Compound

^gThe sample interval is depth, in feet, below the ground surface.

^cSVOC = Semivolatile Organic Compound

^hNA = Not available

^dTCLP = Toxicity Characteristic Leaching Procedure

^eX = Sample analyzed for parameter indicated.

TABLE F-1B
SOUTH FIELD
SUMMARY OF RI/FS SAMPLE COLLECTION ACTIVITIES
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Monitoring Well, Hydropunch™, or Sample Location	Sample Numbers	Target Analyte List 20.03.05	
		Total Uranium Screening A	Full HSL, Gen. GW Qual., Full Rad. B
SURFACE WATER SAMPLES			
SF-SW-01	110422		X
	110424	X	
SF-SW-02	110432		X
	110434	X	
SF-SW-03		X	X
SF-SW-04		X	X
SF-SW-05 ^b	113489	X	
SF-SW-06 ^b	113490	X	
SF-SW-07 ^b	113666	X	
11018 ^b	112633	X	
GROUNDWATER			
1014		X	X
1046	116231		X ^f
	116235	X	
	113312		X ^m , TOC
1065	112013		X
	112014 ^b		X ^d
	113292	X	
	113293 ^b	X	
1433		X	X
1516		X	X
1517		X	X
1518		X	X
1941	112997		X
	112999	X	
	113316 ^b		X ^h
1942	110645	X	
	113000		X
	113001 ^b	X	

See footnotes at end of table.

TABLE F-1B
(Continued)

Monitoring Well, Hydropunch™, or Sample Location	Sample Numbers	Target Analyte List 20.03.05	
		Total Uranium Screening A	Full HSL, Gen. GW Qual., Full Rad. B
GROUNDWATER (Continued)			
1942 (continued)	113319 ^b		X ^h
1954	113798		X
	113800	X	
2014	111992		X
	111994	X	
2046	116233		X
	116234	X	
2065	112008		X
	112009	X	
	112012	X	
	113291 ^b		X ^d
2385	111998		X
	111999	X	
2401	116229		X
	116230	X	
2943	113003		X
	113005	X	
	113314 ^b		X ^h
	113315 ^b (duplicate of 113314)		X ^h
2944	113866		X
	113866F ^b		X ^h
	113868	X	
2945	112994		X
	112996	X	
	113313 ^b		X ^h
2954 ^b	113224	X	
	113795		X
	113797	X	
11009	110597 (9.0 - 14.0)	X	
11010	110526 (9.0 - 13.0)	X	
11011		X	
11012	110714 (10.0 - 14.0)	X	

See footnotes at end of table.

TABLE F-1B
(Continued)

Monitoring Well, Hydropunch™, or Sample Location	Sample Numbers	Target Analyte List 20.03.05	
		Total Uranium Screening A	Full HSL, Gen. GW Qual., Full Rad. B
GROUNDWATER (Continued)			
11013	112809 (5.5 - 9.5)	X	
11014	110487 (5.0 - 9.0)	X	
11015	110465 (8.0)	X	
11016	112829 (5.5 - 9.5)	X	
11017		X	
11018	112634 (21.0 - 24.0)	X	
11019 ^b	113050 (21.0 - 25.0)	X	
11020 ^b	113046 (19.0 - 23.0)	X	
11021 ^b	113054 (21.0 - 25.0)	X	
11022 ^b	113058 (21.0 - 25.0)	X	
11023 ^b	113062 (21.0 - 25.0)	X	
11024 ^b	113067 (6.5 - 10.5)	X	
11025 ^b	113071 (6.5 - 10.5)	X	
11026 ^b	113145 (10.0 - 14.5)	X	
11027 ^b	113104 (12.0 - 16.0)	X	
11028 ^b	113242 (55.0)	X	
11029 ^b	113007 (40.0 - 42.0)	X	
11030 ^b	116361, 116362 (62.0 - 67.0)	X	
11032 ^b	113817	X	
	113869		X
	113869F		X ^h
	113870	X	
11082 ^b	113693 (9.0 - 13.0)	X	
11083 ^b	113679 (9.0 - 13.0)	X	
11084 ^b	113288 (10.5 - 14.5)	X	
11085 ^b	113792		X

See footnotes at end of table.

TABLE F-1B
(Continued)

Sample Location	Sample Number	Sample Interval (ft.)	Target Analyte List 20.03.05					
			Screening	Chem/Rad	RCRA/Geotechnical			
			A	C	D	E	F	J
SEDIMENT SAMPLES								
SF-SD-01	110425	0 - 0.5		X				
	110429 ^b		X					
SF-SD-02	110430	0 - 0.5		X				X
	110435 ^b		X					
	112992				SA, HA			
	112993				TOC			
SF-SD-03	110428	0 - 0.5		X				
	110436 ^b		X					
SF-SD-04		0 - 0.5		X				
SURFACE SAMPLES								
SF-SB-01 (1964)	110331	0 - 0.5		X				
SF-SB-02 (1965)	110351	0 - 0.5		X				
SF-SB-03 (1966)	110355	0 - 0.5		X				
SF-SB-04 (1967)	110358	0 - 0.5		X				
SF-SB-05 (1968)	110392	0 - 0.5		X				
SF-SB-06 (1969)	110338	0 - 0.5		X				
SF-SB-07 (1970)	110372	0 - 0.5		X				
SF-SB-08 (1971)	110324	0 - 0.5		X				
SF-SB-09 (1972)	110378	0 - 0.5		X				
SF-SS-10 (11186)	110317	0 - 0.5		X				
SF-SS-11 (11187)	110321	0 - 0.5		X				
SF-SB-12 (1975)	110385	0 - 0.5		X				
SF-SB-13 (11188)	110340	0 - 0.5		X				
SF-SB-14 (1977)	110304	0 - 0.5		X				
SF-SB-15 (1978)	110335	0 - 0.5		X				
SF-SS-16	110343	0 - 0.5		X				
SF-SS-17	110297	0 - 0.5		X				
SF-SS-18	110287	0 - 0.5		X				
SF-SS-19	110365	0 - 0.5		X				
SF-SS-20	110290	0 - 0.5		X				
SF-SS-21	110307	0 - 0.5		X				

See footnotes at end of table.

TABLE F-1B
(Continued)

Sample Location	Sample Number	Sample Interval (ft.)	Target Analyte List 20.03.05					
			Screening	Chem/Rad	RCRA/Geotechnical			
			A	C	D	E	F	J
SURFACE WIPE SAMPLES (TRENCH DEBRIS)								
Trench 1	113726	2.0	X ^o					
	113727	2.0	X ^o					
	113728	10.7	X ^o					
	113729	6.8	X ^o					
	113730	5.8	X ^o					
Trench 2	113731	4.0	X ^o					
	113732	7.0	X ^o					
	113733	7.0	X ^o					
Trench 4	113734	3.0	X ^o					
	113735	4.0	X ^o					
	113736	4.0	X ^o					
	113737	5.0	X ^o					
	113738	5.0	X ^o					
	113739	3.5	X ^o					
	113740	5.0	X ^o					
	114065	6.0	X ^o					
CONCRETE CORE SAMPLES (TRENCH DEBRIS)								
Trench 1	93-461-7853	NA	X ⁱ					
	93-461-7854	NA	X ⁱ					
Trench 2	93-461-7852	NA	X ⁱ					
SUBSURFACE SAMPLES								
Trench 1	113105	2.0		X ^e				
	113716		X					
	113718			X ^c				
Trench 2	113724	6.0	X	X ⁱ				
	113725		X	X ⁱ				
Trench 3	None Collected							
Trench 4	113720	3.5	X					
	113722			X ^e				
Trench 5	113807	6.0	X ⁱ					

See footnotes at end of table.

TABLE F-1B
(Continued)

Sample Location	Sample Number	Sample Interval (ft.)	Target Analyte List 20.03.05					
			Screening	Chem/Rad	RCRA/Geotechnical			
			A	C	D	E	F	J
SUBSURFACE SAMPLES (Continued)								
Trench 6	None Collected							
Trench 7	None Collected							
Trench 8	None Collected							
Trench 9	None Collected							
Trench 10	None Collected							
SF-SB-03 (1966) ^b	110405	0.5 - 1.0		X				
SF-SB-04 (1967)	110362	0.5 - 1.0		X				
SF-SB-05 (1968) ^a	110396	0.5 - 1.0		X				
SF-SB-06 (1969)	110339	0.5 - 1.0		X				
SF-SB-07 (1970)		0.5 - 1.0		X				
SF-SB-08 (1971)	110327	0.5 - 1.0		X				
SF-SB-09 (1972)	110382	0.5 - 1.0		X	S4, HA, W			X
SF-SS-10 (11186) ^b	110413	0.5 - 1.0		X				
SF-SS-11 (11187) ^b	110415	0.5 - 1.0		X				
SF-SB-12 (1975)	110389	0.5 - 1.0		X				
SF-SB-14 (1977)		0.5 - 1.0		X				
SF-SB-15 (1978) ^c	110406	0.5 - 1.0		X				
SF-SS-19	110369	0.5 - 1.0		X				
SF-SS-20		0.5 - 1.0		X				
1941	112784	13.0 - 13.5	X					
1942	110644	17.5 - 18.0	X					
1964	112647	3.0 - 5.0			X ^g			
	112648	5.0 - 6.5		X				
	112671	20.0 - 22.0			X ^g			
	112685	29.0 - 30.5		X				
	112686 ^b	30.5 - 31.0	X					

See footnotes at end of table.

TABLE F-1B
(Continued)

Sample Location	Sample Number	Sample Interval (ft.)	Target Analyte List 20.03.05					
			Screening	Chem/Rad	RCRA/Geotechnical			
			A	C	D	E	F	J
SUBSURFACE SAMPLES (Continued)								
1965	112735	0.0 - 2.0			X ^g			
	112736	2.0 - 4.0						X
	112737	4.0 - 6.0		X				
	112761	22.5 - 24.5			X ^g			
	112762	24.5 - 26.5				X		X
	112764 ^b	28.0 - 28.5	X					
	112763 ^b	26.5 - 28.0		X				
		35.0 - 35.5		X				
1966	112858	2.5 - 4.5			X ^g			
	112886	4.5 - 6.5			TOC			
	112860	6.5 - 8.5		X	X			X
	112867 ^a	11.5 - 13.0			X ^g			
	112887 ^a	13.0 - 15.0			TOC			
	112868 ^a	24.0 - 25.0		X				X
	112883 ^b	25.0 - 25.5	X ^b					
		45.0 - 45.5		X				
	112696	4.5 - 7.5		X				
	112731	29.5 - 31.0		X				
1967	112732 ^b	31.0 - 31.5	X					
	112833	1.0 - 3.0						X
	112834	3.0 - 4.5			PL, LL			
	112835	4.5 - 6.5		X				
	112849 ^a	15.5 - 16.5		X				
1968	112852 ^b	17.5 - 18.0	X					
	112557	2.0 - 4.0			X ^g			
	112559	4.5 - 6.0		X				
	112562	7.0 - 9.0			X ^g			
	112563	9.0 - 10.5		X				
	112564 ^a	10.5 - 12.0			X ^g			
	112565	12.0 - 13.5						X
1969	112566 ^b	13.5 - 14.0	X					

See footnotes at end of table.

TABLE F-1B
(Continued)

Sample Location	Sample Number	Sample Interval (ft.)	Target Analyte List 20.03.05					
			Screening	Chem/Rad	RCRA/Geotechnical			
			A	C	D	E	F	J
SUBSURFACE SAMPLES (Continued)								
1970	112688	0.0 - 2.0						X
	112689	2.0 - 4.0					X	
	112690	4.0 - 5.5		X				
	112691	5.5 - 7.0			X			
	112892	7.0 - 9.0					X	X
	112893	9.0 - 10.5		X				
	112894 ^b	10.5 - 11.0	X					
1971	112536	4.5 - 6.5		X				
	112593	9.5 - 11.0		X				
	112594 ^b	11.0 - 11.5	X					
1972	110584	2.5 - 4.0		X				
	112494	7.5 - 9.0		X				
	112497 ^b	10.0 - 10.5	X					
1975	112544	2.0 - 4.0				X ^g		
	112545	4.0 - 5.0		X				
	112546	5.0 - 7.0						X
	112550	8.5 - 10.5		X				
	112551 ^b	10.0 - 10.5	X					
1977	110568	3.0 - 5.0					X	X
	110569	5.0 - 8.0				X ^g		
	110571 ^a	8.5 - 10.0		X				
	110575	11.5 - 13.5				X ^g		
	110578 ^a	14.5 - 16.5					X	X
	110579 ^a	16.5 - 18.5		X				
	110580 ^b	18.0 - 18.5	X					
1978	112584	9.5 - 11.0		X				
	112588 ^a	13.5 - 15.0		X				
	112589 ^b	15.0 - 15.5	X					
2943	110767	50.0 - 65.0	X					
2944	113769	50.0 - 65.0	X					
2945	110239	3.0 - 4.5			SA, HA			X
	110240 ^b	4.5 - 6.0			SA, HA			
	110244	5.0 - 7.0	X		W, SG			

See footnotes at end of table.

TABLE F-1B
(Continued)

Sample Location	Sample Number	Sample Interval (ft.)	Target Analyte List 20.03.05							
			Screening	Chem/Rad	RCRA/Geotechnical					
			A	C	D	E	F	J		
SUBSURFACE SAMPLES (Continued)										
2945 (Continued)										
110241 6.0 - 7.5										
110253 25.0 - 27.0										
X										
2954 ^b										
113223 45.0-60.0										
X										
11009 ^b										
110530 3.5 - 4.0										
X										
110596 15.5 - 16.0										
X										
11010 ^b										
110511 0.0 - 0.5										
X										
110525 13.5 - 14.0										
X										
11011 ^b										
110607 10.5 - 11.0										
X										
110618 18.0 - 18.5										
X										
110687 0.0 - 0.5										
X										
11012 ^b										
110712 13.5 -14.0										
X										
110713 14.0 - 14.5										
X										
11013 ^b										
112811 9.5 - 10.0										
X										
11014 ^b										
110470 1.0 - 1.5										
X										
110486 10.0 - 10.5										
X										
11015 ^b										
110437 0.5 - 1.0										
X										
110464 14.5 - 15.0										
X										
11016 ^b										
112832 10.0 - 10.5										
X										
11017 ^b										
110488 0.0 - 0.5										
X										
11017 ^b										
110510 16.5 - 17.0										
X										
11018 ^b										
112636 24.5 - 25.0										
X										
11027 ^b										
113102 16.5 - 18.0										
X										
11186 (1973)										
112507 4.5 - 6.5										
X										
112514 9.5 - 11.5										
X										
11186 (1973)										
112516 ^b 12.0 - 12.5										
X										
112518 0.0 - 2.0										
X										
11187 (1974)										
112519 2.0 - 4.0										
X ^g										
112520 4.0 - 6.0										
X										
112526 9.0 - 10.5										
X										
11187 (1974)										
112527 ^b 10.5 - 11.0										
X										
11188 (1976)										
110547 5.0 - 6.0										
X										
110556 10.0 - 10.5										
X										
110559 ^b 11.5 - 12.0										
X										

See footnotes at end of table.

TABLE F-1B
(Continued)

TARGET ANALYTE LIST DETAILS:

- | | |
|---|-------------------------------|
| [A] Water/Soil - Total Uranium | [E] CON=Consolidation Test |
| [B] Water - Full Hazardous Substance List (HSL), Full Rad.,
General Groundwater Quality Parameters | [F] HC=Hydraulic Conductivity |
| [C] Soil/Sediment/Sludge/Waste - Full HSL, Full Rad. | [J] Dry Unit Weight |
| [D] <u>Classification Tests</u> | |
| SG=Specific Gravity | |
| W=Water Content | |
| LL=Liquid Limit | |
| PL=Plastic Limit | |
| <u>Grain Size</u> | |
| SA=Sieve Analysis | |
| HA=Hydrometer Analysis | |
| <u>Other</u> | |
| TOC=Total Organic Carbon | |

NOTE: X = Sample analyzed for parameter(s) indicated, except when shaded.

NA = Not applicable

The shaded areas represent samples or analyses that were specified in the Sampling and Analysis Plan (SAP) but were not collected or performed. These differences may be due to field conditions (e.g., dry well) or laboratory variances (e.g., missed holding time).

^aSubstitute samples for samples specified in the SAP

^bAdditional samples not specified in the SAP

^cTAL B or C without Rad.

^dTAL B or C with Full Rad., Metals, and cyanide

^eTAL B or C with Full Rad. only

^fTAL B or C without volatile organic compounds (VOCs)

^gTAL B or D without total organic carbon (TOC)

^hUnfiltered metals and Full Rad. only

ⁱTotal uranium, thorium, and radium

^jVOCs, semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and pesticides only

^kSVOCs, PCBs, and pesticides only

^lVOCs, Rad., metals, and cyanide only

^mVOCs only

ⁿMetals only

^oTotal uranium, total thorium, isotopic uranium, and isotopic thorium

^pPCBs and pesticides only

TABLE F-2

TABLE F-2A
SOUTH FIELD
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND IN SURFACE SOIL
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
<u>METALS</u>							
1964	110331	0 - .5	22-MAR-93	Beryllium	.860	-	.6 mg/kg
1964	110331	0 - .5	22-MAR-93	Calcium	41500.000	-	5296.781 mg/kg
1964	110331	0 - .5	22-MAR-93	Copper	16.900	-	15.7 mg/kg
1964	110331	0 - .5	22-MAR-93	Molybdenum	5.500	-	0 mg/kg
1964	110331	0 - .5	22-MAR-93	Silver	5.300	-	0 mg/kg
1964	110331	0 - .5	22-MAR-93	Sodium	91.300	-	55.145 mg/kg
1964	110331	0 - .5	22-MAR-93	Potassium	1940.000	-	1349.53 mg/kg
1964	110331	0 - .5	22-MAR-93	Magnesium	13700.000	J	1460 mg/kg
1965	110351	0 - .5	22-MAR-93	Beryllium	.980	-	.6 mg/kg
1965	110351	0 - .5	22-MAR-93	Calcium	33900.000	-	5296.781 mg/kg
1965	110351	0 - .5	22-MAR-93	Zinc	62.900	-	58.5 mg/kg
1965	110351	0 - .5	22-MAR-93	Sodium	90.200	-	55.145 mg/kg
1965	110351	0 - .5	22-MAR-93	Silver	6.500	-	0 mg/kg
1965	110351	0 - .5	22-MAR-93	Potassium	2170.000	-	1349.53 mg/kg
1965	110351	0 - .5	22-MAR-93	Molybdenum	5.500	-	0 mg/kg
1965	110351	0 - .5	22-MAR-93	Magnesium	12800.000	J	1460 mg/kg
1965	110351	0 - .5	22-MAR-93	Copper	19.600	-	15.7 mg/kg
1966	110355	0 - .5	22-MAR-93	Barium	125.000	-	88.5 mg/kg
1966	110355	0 - .5	22-MAR-93	Beryllium	.910	-	.6 mg/kg
1966	110355	0 - .5	22-MAR-93	Calcium	32900.000	-	5296.781 mg/kg
1966	110355	0 - .5	22-MAR-93	Sodium	79.000	-	55.145 mg/kg
1966	110355	0 - .5	22-MAR-93	Silver	5.700	-	0 mg/kg
1966	110355	0 - .5	22-MAR-93	Potassium	1530.000	-	1349.53 mg/kg
1966	110355	0 - .5	22-MAR-93	Molybdenum	5.500	-	0 mg/kg
1966	110355	0 - .5	22-MAR-93	Magnesium	11900.000	J	1460 mg/kg
1966	110355	0 - .5	22-MAR-93	Copper	18.300	-	15.7 mg/kg
1967	110358	0 - .5	22-MAR-93	Beryllium	.710	-	.6 mg/kg
1967	110358	0 - .5	22-MAR-93	Magnesium	17900.000	J	1460 mg/kg
1967	110358	0 - .5	22-MAR-93	Calcium	58400.000	-	5296.781 mg/kg
1967	110358	0 - .5	22-MAR-93	Molybdenum	6.200	-	0 mg/kg
1967	110358	0 - .5	22-MAR-93	Potassium	1480.000	-	1349.53 mg/kg
1967	110358	0 - .5	22-MAR-93	Sodium	97.200	-	55.145 mg/kg
1967	110358	0 - .5	22-MAR-93	Silver	5.500	-	0 mg/kg
1968	110392	0 - .5	22-MAR-93	Calcium	71300.000	-	5296.781 mg/kg
1968	110392	0 - .5	22-MAR-93	Molybdenum	4.300	-	0 mg/kg

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January 21, 1995

TABLE F-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
METALS (Continued)							
1968	110392	0 - .5	22-MAR-93	Magnesium	31600.000	J	1460 mg/kg
1968	110392	0 - .5	22-MAR-93	Sodium	121.000	-	55.145 mg/kg
1968	110392	0 - .5	22-MAR-93	Silver	4.500	-	0 mg/kg
1968	110392	0 - .5	22-MAR-93	Potassium	1400.000	-	1349.53 mg/kg
1969	110338	0 - .5	22-MAR-93	Aluminum	14900.000	-	13125.282 mg/kg
1969	110338	0 - .5	22-MAR-93	Barium	98.700	-	88.5 mg/kg
1969	110338	0 - .5	22-MAR-93	Calcium	60900.000	-	5296.781 mg/kg
1969	110338	0 - .5	22-MAR-93	Beryllium	1.500	-	.6 mg/kg
1969	110338	0 - .5	22-MAR-93	Sodium	177.000	-	55.145 mg/kg
1969	110338	0 - .5	22-MAR-93	Silver	5.800	-	0 mg/kg
1969	110338	0 - .5	22-MAR-93	Potassium	1550.000	-	1349.53 mg/kg
1969	110338	0 - .5	22-MAR-93	Molybdenum	5.600	-	0 mg/kg
1969	110338	0 - .5	22-MAR-93	Magnesium	17600.000	J	1460 mg/kg
1969	110338	0 - .5	22-MAR-93	Copper	16.100	-	15.7 mg/kg
1970	110372	0 - .5	22-MAR-92	Antimony	1.900	J	0 mg/kg
1970	110372	0 - .5	22-MAR-92	Beryllium	.680	-	.6 mg/kg
1970	110372	0 - .5	22-MAR-92	Calcium	40400.000	-	5296.781 mg/kg
1970	110372	0 - .5	22-MAR-92	Lead	30.000	J	29.575 mg/kg
1970	110372	0 - .5	22-MAR-92	Molybdenum	5.200	-	0 mg/kg
1970	110372	0 - .5	22-MAR-92	Zinc	62.100	-	58.5 mg/kg
1970	110372	0 - .5	22-MAR-92	Sodium	78.800	-	55.145 mg/kg
1970	110372	0 - .5	22-MAR-92	Silver	6.100	-	0 mg/kg
1970	110372	0 - .5	22-MAR-92	Potassium	1730.000	-	1349.53 mg/kg
1970	110372	0 - .5	22-MAR-92	Magnesium	13000.000	J	1460 mg/kg
1970	110372	0 - .5	22-MAR-92	Copper	18.900	-	15.7 mg/kg
1971	110324	0 - .5	22-MAR-93	Beryllium	.750	-	.6 mg/kg
1971	110324	0 - .5	22-MAR-93	Sodium	90.000	-	55.145 mg/kg
1971	110324	0 - .5	22-MAR-93	Silver	6.000	-	0 mg/kg
1971	110324	0 - .5	22-MAR-93	Calcium	29700.000	-	5296.781 mg/kg
1971	110324	0 - .5	22-MAR-93	Molybdenum	5.600	-	0 mg/kg
1971	110324	0 - .5	22-MAR-93	Magnesium	9340.000	J	1460 mg/kg
1971	110324	0 - .5	22-MAR-93	Copper	18.600	-	15.7 mg/kg
1972	110378	0 - .5	19-MAR-93	Calcium	64800.000	-	5296.781 mg/kg
1972	110378	0 - .5	19-MAR-93	Sodium	122.000	-	55.145 mg/kg
1972	110378	0 - .5	19-MAR-93	Silver	3.900	J	0 mg/kg
1972	110378	0 - .5	19-MAR-93	Potassium	1420.000	-	1349.53 mg/kg
1972	110378	0 - .5	19-MAR-93	Molybdenum	4.800	-	0 mg/kg
1972	110378	0 - .5	19-MAR-93	Magnesium	21700.000	-	1460 mg/kg
1972	110378	0 - .5	19-MAR-93	Copper	18.400	-	15.7 mg/kg
1972	110378	0 - .5	19-MAR-93	Chromium	17.300	-	17.057 mg/kg
1975	110385	0 - .5	22-MAR-93	Antimony	1.200	J	0 mg/kg
1975	110385	0 - .5	22-MAR-93	Calcium	68100.000	-	5296.781 mg/kg
1975	110385	0 - .5	22-MAR-93	Magnesium	19800.000	J	1460 mg/kg

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TABLE F-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
METALS (Continued)							
1975	110385	0 - .5	22-MAR-93	Sodium	103.000	-	55.145 mg/kg
1975	110385	0 - .5	22-MAR-93	Silver	5.200	-	0 mg/kg
1975	110385	0 - .5	22-MAR-93	Molybdenum	5.300	-	0 mg/kg
1975	110385	0 - .5	22-MAR-93	Beryllium	.610	-	.6 mg/kg
1976	110340	0 - .5	22-MAR-93	Beryllium	.870	-	.6 mg/kg
1976	110340	0 - .5	22-MAR-93	Sodium	120.000	-	55.145 mg/kg
1976	110340	0 - .5	22-MAR-93	Silver	5.000	-	0 mg/kg
1976	110340	0 - .5	22-MAR-93	Molybdenum	5.100	-	0 mg/kg
1976	110340	0 - .5	22-MAR-93	Magnesium	29700.000	J	1460 mg/kg
1976	110340	0 - .5	22-MAR-93	Calcium	86000.000	-	5296.781 mg/kg
1977	110304	0 - .5	19-MAR-93	Beryllium	.630	-	.6 mg/kg
1977	110304	0 - .5	19-MAR-93	Sodium	154.000	-	55.145 mg/kg
1977	110304	0 - .5	19-MAR-93	Silver	3.400	J	0 mg/kg
1977	110304	0 - .5	19-MAR-93	Magnesium	29000.000	-	1460 mg/kg
1977	110304	0 - .5	19-MAR-93	Calcium	82700.000	-	5296.781 mg/kg
1978	110335	0 - .5	22-MAR-93	Beryllium	.860	-	.6 mg/kg
1978	110335	0 - .5	22-MAR-93	Copper	16.700	-	15.7 mg/kg
1978	110335	0 - .5	22-MAR-93	Potassium	1560.000	-	1349.53 mg/kg
1978	110335	0 - .5	22-MAR-93	Sodium	83.300	-	55.145 mg/kg
1978	110335	0 - .5	22-MAR-93	Silver	6.000	-	0 mg/kg
1978	110335	0 - .5	22-MAR-93	Molybdenum	5.600	-	0 mg/kg
1978	110335	0 - .5	22-MAR-93	Magnesium	14100.000	J	1460 mg/kg
1978	110335	0 - .5	22-MAR-93	Calcium	34600.000	-	5296.781 mg/kg
SF-SS-10	110317	0 - .5	19-MAR-93	Barium	96.100	-	88.5 mg/kg
SF-SS-10	110317	0 - .5	19-MAR-93	Copper	17.100	-	15.7 mg/kg
SF-SS-10	110317	0 - .5	19-MAR-93	Sodium	114.000	-	55.145 mg/kg
SF-SS-10	110317	0 - .5	19-MAR-93	Silver	4.800	J	0 mg/kg
SF-SS-10	110317	0 - .5	19-MAR-93	Potassium	1700.000	-	1349.53 mg/kg
SF-SS-10	110317	0 - .5	19-MAR-93	Molybdenum	5.300	-	0 mg/kg
SF-SS-10	110317	0 - .5	19-MAR-93	Magnesium	13200.000	-	1460 mg/kg
SF-SS-10	110317	0 - .5	19-MAR-93	Lead	30.800	-	29.575 mg/kg
SF-SS-10	110317	0 - .5	19-MAR-93	Calcium	44600.000	-	5296.781 mg/kg
SF-SS-10	110317	0 - .5	19-MAR-93	Beryllium	.830	-	.6 mg/kg
SF-SS-10	110317	0 - .5	19-MAR-93	Cyanide	.320	-	.23 mg/kg
SF-SS-11	110321	0 - .5	19-MAR-93	Calcium	67000.000	-	5296.781 mg/kg
SF-SS-11	110321	0 - .5	19-MAR-93	Copper	16.200	-	15.7 mg/kg
SF-SS-11	110321	0 - .5	19-MAR-93	Magnesium	16700.000	-	1460 mg/kg
SF-SS-11	110321	0 - .5	19-MAR-93	Silver	5.600	J	0 mg/kg
SF-SS-11	110321	0 - .5	19-MAR-93	Sodium	150.000	-	55.145 mg/kg
SF-SS-11	110321	0 - .5	19-MAR-93	Molybdenum	5.800	-	0 mg/kg
SF-SS-16	110343	0 - .5	22-MAR-93	Beryllium	.840	-	.6 mg/kg
SF-SS-16	110343	0 - .5	22-MAR-93	Calcium	42100.000	-	5296.781 mg/kg
SF-SS-16	110343	0 - .5	22-MAR-93	Sodium	88.700	-	55.145 mg/kg

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TABLE F-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
<u>METALS (Continued)</u>							
SF-SS-16	110343	0 - .5	22-MAR-93	Silver	5.700	-	0 mg/kg
SF-SS-16	110343	0 - .5	22-MAR-93	Potassium	1690.000	-	1349.53 mg/kg
SF-SS-16	110343	0 - .5	22-MAR-93	Molybdenum	5.100	-	0 mg/kg
SF-SS-16	110343	0 - .5	22-MAR-93	Magnesium	13600.000	J	1460 mg/kg
SF-SS-16	110343	0 - .5	22-MAR-93	Copper	15.800	-	15.7 mg/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Aluminum	16300.000	-	13125.282 mg/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Calcium	88500.000	-	5296.781 mg/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Magnesium	18900.000	-	1460 mg/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Beryllium	1.900	-	.6 mg/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Barium	151.000	-	88.5 mg/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Chromium	21.500	-	17.057 mg/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Zinc	67.800	-	58.5 mg/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Sodium	328.000	-	55.145 mg/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Silver	4.400	J	0 mg/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Potassium	1600.000	-	1349.53 mg/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Manganese	2650.000	-	2257.945 mg/kg
SF-SS-18	110287	0 - .5	18-MAR-93	Calcium	140000.000	-	5296.781 mg/kg
SF-SS-18	110287	0 - .5	18-MAR-93	Sodium	131.000	-	55.145 mg/kg
SF-SS-18	110287	0 - .5	18-MAR-93	Magnesium	18200.000	-	1460 mg/kg
SF-SS-19	110365	0 - .5	22-MAR-93	Calcium	87600.000	-	5296.781 mg/kg
SF-SS-19	110365	0 - .5	22-MAR-93	Molybdenum	4.000	-	0 mg/kg
SF-SS-19	110365	0 - .5	22-MAR-93	Sodium	122.000	-	55.145 mg/kg
SF-SS-19	110365	0 - .5	22-MAR-93	Silver	3.200	-	0 mg/kg
SF-SS-19	110365	0 - .5	22-MAR-93	Lead	46.000	J	29.575 mg/kg
SF-SS-19	110365	0 - .5	22-MAR-93	Magnesium	28200.000	J	1460 mg/kg
SF-SS-20	110290	0 - .5	19-MAR-93	Calcium	81600.000	-	5296.781 mg/kg
SF-SS-20	110290	0 - .5	19-MAR-93	Sodium	107.000	-	55.145 mg/kg
SF-SS-20	110290	0 - .5	19-MAR-93	Magnesium	20600.000	-	1460 mg/kg
SF-SS-20	110290	0 - .5	19-MAR-93	Silver	4.000	J	0 mg/kg
SF-SS-21	110307	0 - .5	18-MAR-93	Barium	110.000	-	88.5 mg/kg
SF-SS-21	110307	0 - .5	18-MAR-93	Sodium	69.500	-	55.145 mg/kg
SF-SS-21	110307	0 - .5	18-MAR-93	Silver	5.500	J	0 mg/kg
SF-SS-21	110307	0 - .5	18-MAR-93	Molybdenum	5.200	-	0 mg/kg
SF-SS-21	110307	0 - .5	18-MAR-93	Magnesium	6490.000	-	1460 mg/kg
SF-SS-21	110307	0 - .5	18-MAR-93	Copper	17.600	-	15.7 mg/kg
SF-SS-21	110307	0 - .5	18-MAR-93	Calcium	12900.000	-	5296.781 mg/kg
SF-SS-21	110307	0 - .5	18-MAR-93	Beryllium	1.000	-	.6 mg/kg
<u>RADIONUCLIDES</u>							
1964	110331	0 - .5	22-MAR-93	GROSS ALPHA	25.200	-	0 pCi/g
1964	110331	0 - .5	22-MAR-93	PU-238	.091	J	0 pCi/g
1964	110331	0 - .5	22-MAR-93	GROSS BETA	39.000	-	0 pCi/g
1964	110331	0 - .5	22-MAR-93	U-TOTAL	10.500	-	3.24 mg/kg

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000459

TABLE F-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)							
1964	110331	0 - .5	22-MAR-93	U-238	3.470 -	1.27	pCi/g
1964	110331	0 - .5	22-MAR-93	U-234	3.430 -	1.319	pCi/g
1964	110331	0 - .5	22-MAR-93	SR-90	.355 N	0	pCi/g
1964	110331	0 - .5	22-MAR-93	PU-239/240	.043 J	0	pCi/g
1964	110331	0 - .5	22-MAR-93	NP-237	.180 N	0	pCi/g
1965	110351	0 - .5	22-MAR-93	GROSS ALPHA	62.000 -	0	pCi/g
1965	110351	0 - .5	22-MAR-93	NP-237	.483 N	0	pCi/g
1965	110351	0 - .5	22-MAR-93	RA-226	1.800 -	1.528	pCi/g
1965	110351	0 - .5	22-MAR-93	U-235/236	.887 -	.181	pCi/g
1965	110351	0 - .5	22-MAR-93	U-234	16.300 -	1.319	pCi/g
1965	110351	0 - .5	22-MAR-93	U-TOTAL	49.000 -	3.24	mg/kg
1965	110351	0 - .5	22-MAR-93	U-238	16.600 -	1.27	pCi/g
1965	110351	0 - .5	22-MAR-93	SR-90	.534 -	0	pCi/g
1965	110351	0 - .5	22-MAR-93	RA-228	1.210 -	1.17	pCi/g
1965	110351	0 - .5	22-MAR-93	PU-239/240	.024 J	0	pCi/g
1965	110351	0 - .5	22-MAR-93	PU-238	.019 J	0	pCi/g
1965	110351	0 - .5	22-MAR-93	GROSS BETA	56.600 -	0	pCi/g
1966	110355	0 - .5	22-MAR-93	GROSS ALPHA	79.500 -	0	pCi/g
1966	110355	0 - .5	22-MAR-93	GROSS BETA	53.700 -	0	pCi/g
1966	110355	0 - .5	22-MAR-93	U-TOTAL	38.100 -	3.24	mg/kg
1966	110355	0 - .5	22-MAR-93	U-238	11.300 -	1.27	pCi/g
1966	110355	0 - .5	22-MAR-93	U-235/236	.515 -	.181	pCi/g
1966	110355	0 - .5	22-MAR-93	U-234	10.000 -	1.319	pCi/g
1966	110355	0 - .5	22-MAR-93	TH-TOTAL	36.700 -	10.7	mg/kg
1966	110355	0 - .5	22-MAR-93	TH-232	3.990 -	1.469	pCi/g
1966	110355	0 - .5	22-MAR-93	TH-230	12.100 -	2.112	pCi/g
1966	110355	0 - .5	22-MAR-93	TH-228	4.410 -	1.519	pCi/g
1966	110355	0 - .5	22-MAR-93	RA-228	3.880 -	1.17	pCi/g
1966	110355	0 - .5	22-MAR-93	RA-226	1.740 -	1.528	pCi/g
1966	110355	0 - .5	22-MAR-93	PU-239/240	.076 J	0	pCi/g
1966	110355	0 - .5	22-MAR-93	PU-238	.116 J	0	pCi/g
1966	110355	0 - .5	22-MAR-93	NP-237	.214 N	0	pCi/g
1967	110358	0 - .5	22-MAR-93	GROSS ALPHA	20.800 -	0	pCi/g
1967	110358	0 - .5	22-MAR-93	PU-238	.128 J	0	pCi/g
1967	110358	0 - .5	22-MAR-93	U-TOTAL	12.500 -	3.24	mg/kg
1967	110358	0 - .5	22-MAR-93	U-238	4.410 -	1.27	pCi/g
1967	110358	0 - .5	22-MAR-93	U-235/236	.198 J	.181	pCi/g
1967	110358	0 - .5	22-MAR-93	U-234	4.460 -	1.319	pCi/g
1967	110358	0 - .5	22-MAR-93	GROSS BETA	37.700 -	0	pCi/g
1968	110392	0 - .5	22-MAR-93	GROSS ALPHA	33.500 -	0	pCi/g
1968	110392	0 - .5	22-MAR-93	NP-237	.185 N	0	pCi/g
1968	110392	0 - .5	22-MAR-93	U-TOTAL	31.200 -	3.24	mg/kg
1968	110392	0 - .5	22-MAR-93	U-238	9.840 -	1.27	pCi/g

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TABLE F-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)							
1968	110392	0 - .5	22-MAR-93	U-235/236	.303 J		.181 pCi/g
1968	110392	0 - .5	22-MAR-93	U-234	9.710 -		1.319 pCi/g
1968	110392	0 - .5	22-MAR-93	GROSS BETA	48.800 -		0 pCi/g
1968	110392	0 - .5	22-MAR-93	PU-239/240	.061 J		0 pCi/g
1968	110392	0 - .5	22-MAR-93	PU-238	.072 J		0 pCi/g
1969	110338	0 - .5	22-MAR-93	GROSS ALPHA	19.000 -		0 pCi/g
1969	110338	0 - .5	22-MAR-93	GROSS BETA	35.000 -		0 pCi/g
1969	110338	0 - .5	22-MAR-93	U-TOTAL	16.700 -		3.24 mg/kg
1969	110338	0 - .5	22-MAR-93	U-238	3.790 -		1.27 pCi/g
1969	110338	0 - .5	22-MAR-93	U-235/236	.197 J		.181 pCi/g
1969	110338	0 - .5	22-MAR-93	U-234	3.580 -		1.319 pCi/g
1969	110338	0 - .5	22-MAR-93	PU-239/240	.019 J		0 pCi/g
1969	110338	0 - .5	22-MAR-93	PU-238	.044 J		0 pCi/g
1969	110338	0 - .5	22-MAR-93	NP-237	.136 N		0 pCi/g
1970	110372	0 - .5	22-MAR-92	GROSS ALPHA	31.400 -		0 pCi/g
1970	110372	0 - .5	22-MAR-92	U-TOTAL	27.400 -		3.24 mg/kg
1970	110372	0 - .5	22-MAR-92	U-238	7.720 -		1.27 pCi/g
1970	110372	0 - .5	22-MAR-92	U-234	7.440 -		1.319 pCi/g
1970	110372	0 - .5	22-MAR-92	GROSS BETA	41.300 -		0 pCi/g
1970	110372	0 - .5	22-MAR-92	U-235/236	.315 J		.181 pCi/g
1970	110372	0 - .5	22-MAR-92	TH-230	2.210 -		2.112 pCi/g
1971	110324	0 - .5	22-MAR-93	GROSS ALPHA	18.700 -		0 pCi/g
1971	110324	0 - .5	22-MAR-93	GROSS BETA	34.700 -		0 pCi/g
1971	110324	0 - .5	22-MAR-93	U-TOTAL	25.500 -		3.24 mg/kg
1971	110324	0 - .5	22-MAR-93	U-238	6.480 -		1.27 pCi/g
1971	110324	0 - .5	22-MAR-93	U-235/236	.344 -		.181 pCi/g
1971	110324	0 - .5	22-MAR-93	U-234	6.040 -		1.319 pCi/g
1971	110324	0 - .5	22-MAR-93	PU-239/240	.021 J		0 pCi/g
1972	110378	0 - .5	19-MAR-93	GROSS ALPHA	234.000 J		0 pCi/g
1972	110378	0 - .5	19-MAR-93	PU-239/240	.042 J		0 pCi/g
1972	110378	0 - .5	19-MAR-93	U-TOTAL	28.300 -		3.24 mg/kg
1972	110378	0 - .5	19-MAR-93	U-238	6.880 -		1.27 pCi/g
1972	110378	0 - .5	19-MAR-93	U-235/236	.299 J		.181 pCi/g
1972	110378	0 - .5	19-MAR-93	U-234	6.180 -		1.319 pCi/g
1972	110378	0 - .5	19-MAR-93	RA-226	21.600 -		1.528 pCi/g
1972	110378	0 - .5	19-MAR-93	PU-238	.341 J		0 pCi/g
1972	110378	0 - .5	19-MAR-93	GROSS BETA	94.700 J		0 pCi/g
1975	110385	0 - .5	22-MAR-93	GROSS ALPHA	47.500 -		0 pCi/g
1975	110385	0 - .5	22-MAR-93	U-TOTAL	23.800 -		3.24 mg/kg
1975	110385	0 - .5	22-MAR-93	U-238	6.920 -		1.27 pCi/g
1975	110385	0 - .5	22-MAR-93	U-235/236	.350 J		.181 pCi/g
1975	110385	0 - .5	22-MAR-93	U-234	6.620 -		1.319 pCi/g
1975	110385	0 - .5	22-MAR-93	TH-230	3.520 -		2.112 pCi/g

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TABLE F-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
RADIOMUCLIDES (Continued)							
1975	110385	0 - .5	22-MAR-93	TC-99	142.000	J	0 pCi/g
1975	110385	0 - .5	22-MAR-93	SR-90	.160	J	0 pCi/g
1975	110385	0 - .5	22-MAR-93	PU-238	.019	-	0 pCi/g
1975	110385	0 - .5	22-MAR-93	NP-237	.110	N	0 pCi/g
1975	110385	0 - .5	22-MAR-93	GROSS BETA	45.200	-	0 pCi/g
1976	110340	0 - .5	22-MAR-93	GROSS ALPHA	33.900	-	0 pCi/g
1976	110340	0 - .5	22-MAR-93	PU-239/240	.049	J	0 pCi/g
1976	110340	0 - .5	22-MAR-93	PU-238	.039	J	0 pCi/g
1976	110340	0 - .5	22-MAR-93	U-234	3.200	-	1.319 pCi/g
1976	110340	0 - .5	22-MAR-93	U-TOTAL	10.400	-	3.24 mg/kg
1976	110340	0 - .5	22-MAR-93	U-238	3.540	-	1.27 pCi/g
1976	110340	0 - .5	22-MAR-93	U-235/236	.226	J	.181 pCi/g
1976	110340	0 - .5	22-MAR-93	NP-237	.239	N	0 pCi/g
1976	110340	0 - .5	22-MAR-93	GROSS BETA	32.200	-	0 pCi/g
1977	110304	0 - .5	19-MAR-93	GROSS ALPHA	20.300	J	0 pCi/g
1977	110304	0 - .5	19-MAR-93	U-TOTAL	19.000	-	3.24 mg/kg
1977	110304	0 - .5	19-MAR-93	U-238	4.150	-	1.27 pCi/g
1977	110304	0 - .5	19-MAR-93	U-234	3.320	-	1.319 pCi/g
1977	110304	0 - .5	19-MAR-93	RA-228	1.180	-	1.17 pCi/g
1977	110304	0 - .5	19-MAR-93	PU-239/240	.061	J	0 pCi/g
1977	110304	0 - .5	19-MAR-93	PU-238	.035	J	0 pCi/g
1977	110304	0 - .5	19-MAR-93	NP-237	.336	N	0 pCi/g
1977	110304	0 - .5	19-MAR-93	GROSS BETA	29.000	J	0 pCi/g
1978	110335	0 - .5	22-MAR-93	GROSS ALPHA	41.800	-	0 pCi/g
1978	110335	0 - .5	22-MAR-93	U-238	5.350	-	1.27 pCi/g
1978	110335	0 - .5	22-MAR-93	U-235/236	.210	J	.181 pCi/g
1978	110335	0 - .5	22-MAR-93	U-TOTAL	18.800	-	3.24 mg/kg
1978	110335	0 - .5	22-MAR-93	U-234	4.980	-	1.319 pCi/g
1978	110335	0 - .5	22-MAR-93	PU-239/240	.058	J	0 pCi/g
1978	110335	0 - .5	22-MAR-93	PU-238	.058	J	0 pCi/g
1978	110335	0 - .5	22-MAR-93	SR-90	1.000	-	0 pCi/g
1978	110335	0 - .5	22-MAR-93	NP-237	.177	N	0 pCi/g
1978	110335	0 - .5	22-MAR-93	GROSS BETA	43.500	-	0 pCi/g
SF-SS-10	110317	0 - .5	19-MAR-93	GROSS ALPHA	237.000	J	0 pCi/g
SF-SS-10	110317	0 - .5	19-MAR-93	U-TOTAL	36.000	-	3.24 mg/kg
SF-SS-10	110317	0 - .5	19-MAR-93	U-238	9.060	-	1.27 pCi/g
SF-SS-10	110317	0 - .5	19-MAR-93	U-235/236	.346	J	.181 pCi/g
SF-SS-10	110317	0 - .5	19-MAR-93	U-234	8.010	-	1.319 pCi/g
SF-SS-10	110317	0 - .5	19-MAR-93	TH-TOTAL	11.040	-	10.7 mg/kg
SF-SS-10	110317	0 - .5	19-MAR-93	TH-230	13.800	-	2.112 pCi/g
SF-SS-10	110317	0 - .5	19-MAR-93	RA-228	1.650	-	1.17 pCi/g
SF-SS-10	110317	0 - .5	19-MAR-93	RA-226	30.800	-	1.528 pCi/g
SF-SS-10	110317	0 - .5	19-MAR-93	PU-239/240	.065	J	0 pCi/g

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6004000000

TABLE F-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)							
SF-SS-10	110317	0 - .5	19-MAR-93	PU-238	.046	J	0 pCi/g
SF-SS-10	110317	0 - .5	19-MAR-93	GROSS BETA	113.000	J	0 pCi/g
SF-SS-10	110317	0 - .5	19-MAR-93	NP-237	.226	N	0 pCi/g
SF-SS-11	110321	0 - .5	19-MAR-93	GROSS ALPHA	39.300	-	0 pCi/g
SF-SS-11	110321	0 - .5	19-MAR-93	TH-228	1.710	-	1.519 pCi/g
SF-SS-11	110321	0 - .5	19-MAR-93	RA-228	1.920	-	1.17 pCi/g
SF-SS-11	110321	0 - .5	19-MAR-93	U-TOTAL	50.600	-	3.24 mg/kg
SF-SS-11	110321	0 - .5	19-MAR-93	U-238	15.100	-	1.27 pCi/g
SF-SS-11	110321	0 - .5	19-MAR-93	U-235/236	.771	-	.181 pCi/g
SF-SS-11	110321	0 - .5	19-MAR-93	U-234	13.700	-	1.319 pCi/g
SF-SS-11	110321	0 - .5	19-MAR-93	TH-TOTAL	13.100	-	10.7 mg/kg
SF-SS-11	110321	0 - .5	19-MAR-93	TH-230	2.220	-	2.112 pCi/g
SF-SS-11	110321	0 - .5	19-MAR-93	GROSS BETA	43.200	-	0 pCi/g
SF-SS-16	110343	0 - .5	22-MAR-93	GROSS ALPHA	29.900	-	0 pCi/g
SF-SS-16	110343	0 - .5	22-MAR-93	U-238	6.530	-	1.27 pCi/g
SF-SS-16	110343	0 - .5	22-MAR-93	U-235/236	.285	J	.181 pCi/g
SF-SS-16	110343	0 - .5	22-MAR-93	U-234	6.440	-	1.319 pCi/g
SF-SS-16	110343	0 - .5	22-MAR-93	GROSS BETA	32.200	-	0 pCi/g
SF-SS-16	110343	0 - .5	22-MAR-93	RA-228	1.200	-	1.17 pCi/g
SF-SS-16	110343	0 - .5	22-MAR-93	PU-239/240	.049	J	0 pCi/g
SF-SS-16	110343	0 - .5	22-MAR-93	NP-237	.092	N	0 pCi/g
SF-SS-17	110297	0 - .5	18-MAR-93	GROSS ALPHA	30.300	-	0 pCi/g
SF-SS-17	110297	0 - .5	18-MAR-93	U-TOTAL	28.400	-	3.24 mg/kg
SF-SS-17	110297	0 - .5	18-MAR-93	U-238	5.990	J	1.27 pCi/g
SF-SS-17	110297	0 - .5	18-MAR-93	U-235/236	.258	J	.181 pCi/g
SF-SS-17	110297	0 - .5	18-MAR-93	U-234	4.940	J	1.319 pCi/g
SF-SS-17	110297	0 - .5	18-MAR-93	RA-228	1.310	-	1.17 pCi/g
SF-SS-17	110297	0 - .5	18-MAR-93	RA-226	1.920	-	1.528 pCi/g
SF-SS-17	110297	0 - .5	18-MAR-93	GROSS BETA	31.800	-	0 pCi/g
SF-SS-18	110287	0 - .5	18-MAR-93	GROSS ALPHA	22.500	-	0 pCi/g
SF-SS-18	110287	0 - .5	18-MAR-93	U-234	2.730	J	1.319 pCi/g
SF-SS-18	110287	0 - .5	18-MAR-93	PU-238	.125	J	0 pCi/g
SF-SS-18	110287	0 - .5	18-MAR-93	U-238	2.870	J	1.27 pCi/g
SF-SS-18	110287	0 - .5	18-MAR-93	U-TOTAL	17.200	-	3.24 mg/kg
SF-SS-18	110287	0 - .5	18-MAR-93	SR-90	.942	J	0 pCi/g
SF-SS-18	110287	0 - .5	18-MAR-93	GROSS BETA	27.700	-	0 pCi/g
SF-SS-19	110365	0 - .5	22-MAR-93	GROSS ALPHA	28.600	-	0 pCi/g
SF-SS-19	110365	0 - .5	22-MAR-93	U-TOTAL	16.300	-	3.24 mg/kg
SF-SS-19	110365	0 - .5	22-MAR-93	U-238	5.460	-	1.27 pCi/g
SF-SS-19	110365	0 - .5	22-MAR-93	U-234	4.260	-	1.319 pCi/g
SF-SS-19	110365	0 - .5	22-MAR-93	TH-230	2.330	-	2.112 pCi/g
SF-SS-19	110365	0 - .5	22-MAR-93	PU-239/240	.045	J	0 pCi/g
SF-SS-19	110365	0 - .5	22-MAR-93	PU-238	.057	J	0 pCi/g

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TABLE F-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
<u>RADIOMUCLIDES (Continued)</u>							
SF-SS-19	110365	0 - .5	22-MAR-93	NP-237	.110	N	0 pCi/g
SF-SS-19	110365	0 - .5	22-MAR-93	GROSS BETA	41.000	-	0 pCi/g
SF-SS-20	110290	0 - .5	19-MAR-93	GROSS ALPHA	42.600	-	0 pCi/g
SF-SS-20	110290	0 - .5	19-MAR-93	GROSS BETA	34.500	-	0 pCi/g
SF-SS-20	110290	0 - .5	19-MAR-93	U-235/236	.470	J	.181 pCi/g
SF-SS-20	110290	0 - .5	19-MAR-93	U-238	11.680	J	1.27 pCi/g
SF-SS-20	110290	0 - .5	19-MAR-93	U-TOTAL	36.400	-	3.24 mg/kg
SF-SS-20	110290	0 - .5	19-MAR-93	U-234	11.560	J	1.319 pCi/g
SF-SS-20	110290	0 - .5	19-MAR-93	RA-228	1.260	-	1.17 pCi/g
SF-SS-21	110307	0 - .5	18-MAR-93	GROSS ALPHA	50.700	-	0 pCi/g
SF-SS-21	110307	0 - .5	18-MAR-93	U-TOTAL	24.500	-	3.24 mg/kg
SF-SS-21	110307	0 - .5	18-MAR-93	U-238	9.320	J	1.27 pCi/g
SF-SS-21	110307	0 - .5	18-MAR-93	U-235/236	.458	J	.181 pCi/g
SF-SS-21	110307	0 - .5	18-MAR-93	U-234	7.930	J	1.319 pCi/g
SF-SS-21	110307	0 - .5	18-MAR-93	RA-228	1.290	-	1.17 pCi/g
SF-SS-21	110307	0 - .5	18-MAR-93	RA-226	3.240	-	1.528 pCi/g
SF-SS-21	110307	0 - .5	18-MAR-93	GROSS BETA	32.300	-	0 pCi/g
SF-SS-21	110307	0 - .5	18-MAR-93	NP-237	.056	N	0 pCi/g
<u>VOLATILE ORGANICS</u>							
1966	110355	0 - .5	22-MAR-93	Methylene chloride	5.000	J	0 ug/kg
1968	110392	0 - .5	22-MAR-93	Acetone	19.000	-	0 ug/kg
1970	110372	0 - .5	22-MAR-92	Acetone	68.000	-	0 ug/kg
1975	110385	0 - .5	22-MAR-93	Acetone	19.000	-	0 ug/kg
1975	110385	0 - .5	22-MAR-93	Methylene chloride	3.000	J	0 ug/kg
SF-SS-20	110290	0 - .5	19-MAR-93	Acetone	9.000	J	0 ug/kg
SF-SS-21	110307	0 - .5	18-MAR-93	Acetone	7.000	J	0 ug/kg
<u>SEMI-VOLATILE ORGANICS</u>							
1964	110331	0 - .5	22-MAR-93	Benzoic acid	270.000	J	0 ug/kg
1964	110331	0 - .5	22-MAR-93	bis(2-Ethylhexyl) phthalate	91.000	J	0 ug/kg
1964	110331	0 - .5	22-MAR-93	Fluoranthene	45.000	J	0 ug/kg
1965	110351	0 - .5	22-MAR-93	Benzoic acid	95.000	J	0 ug/kg
1965	110351	0 - .5	22-MAR-93	bis(2-Ethylhexyl) phthalate	110.000	J	0 ug/kg
1966	110355	0 - .5	22-MAR-93	bis(2-Ethylhexyl) phthalate	91.000	J	0 ug/kg
1967	110358	0 - .5	22-MAR-93	Benzoic acid	72.000	J	0 ug/kg
1967	110358	0 - .5	22-MAR-93	bis(2-Ethylhexyl) phthalate	73.000	J	0 ug/kg
1968	110392	0 - .5	22-MAR-93	Benzo(a)anthracene	51.000	J	0 ug/kg
1968	110392	0 - .5	22-MAR-93	Benzo(b)fluoranthene	62.000	J	0 ug/kg
1968	110392	0 - .5	22-MAR-93	Benzo(a)pyrene	55.000	J	0 ug/kg
1968	110392	0 - .5	22-MAR-93	bis(2-Ethylhexyl) phthalate	87.000	J	0 ug/kg
1968	110392	0 - .5	22-MAR-93	Pyrene	86.000	J	0 ug/kg
1968	110392	0 - .5	22-MAR-93	Fluoranthene	110.000	J	0 ug/kg

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TABLE F-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
<u>SEMIVOLATILE ORGANICS (Continued)</u>							
1968	110392	0 - .5	22-MAR-93	Chrysene	70.000	J	0 ug/kg
1968	110392	0 - .5	22-MAR-93	Benzoic acid	60.000	J	0 ug/kg
1968	110392	0 - .5	22-MAR-93	Benzo(k)fluoranthene	53.000	J	0 ug/kg
1969	110338	0 - .5	22-MAR-93	Benzo(g,h,i)perylene	160.000	J	0 ug/kg
1969	110338	0 - .5	22-MAR-93	bis(2-Ethylhexyl) phthalate	89.000	J	0 ug/kg
1969	110338	0 - .5	22-MAR-93	Fluoranthene	53.000	J	0 ug/kg
1969	110338	0 - .5	22-MAR-93	Benzoic acid	62.000	J	0 ug/kg
1970	110372	0 - .5	22-MAR-92	Benzo(a)anthracene	58.000	J	0 ug/kg
1970	110372	0 - .5	22-MAR-92	Benzo(a)pyrene	67.000	J	0 ug/kg
1970	110372	0 - .5	22-MAR-92	Chrysene	83.000	J	0 ug/kg
1970	110372	0 - .5	22-MAR-92	Benzo(g,h,i)perylene	51.000	J	0 ug/kg
1970	110372	0 - .5	22-MAR-92	bis(2-Ethylhexyl) phthalate	91.000	J	0 ug/kg
1970	110372	0 - .5	22-MAR-92	Pyrene	100.000	J	0 ug/kg
1970	110372	0 - .5	22-MAR-92	Phenanthrene	48.000	J	0 ug/kg
1970	110372	0 - .5	22-MAR-92	Indeno(1,2,3-cd)pyrene	52.000	J	0 ug/kg
1970	110372	0 - .5	22-MAR-92	Fluoranthene	130.000	J	0 ug/kg
1970	110372	0 - .5	22-MAR-92	Benzoic acid	63.000	J	0 ug/kg
1970	110372	0 - .5	22-MAR-92	Benzo(k)fluoranthene	69.000	J	0 ug/kg
1970	110372	0 - .5	22-MAR-92	Benzo(b)fluoranthene	74.000	J	0 ug/kg
1971	110324	0 - .5	22-MAR-93	Benzo(a)anthracene	44.000	J	0 ug/kg
1971	110324	0 - .5	22-MAR-93	Fluoranthene	120.000	J	0 ug/kg
1971	110324	0 - .5	22-MAR-93	Benzo(k)fluoranthene	52.000	J	0 ug/kg
1971	110324	0 - .5	22-MAR-93	Phenanthrene	67.000	J	0 ug/kg
1971	110324	0 - .5	22-MAR-93	bis(2-Ethylhexyl) phthalate	80.000	J	0 ug/kg
1971	110324	0 - .5	22-MAR-93	Pyrene	93.000	J	0 ug/kg
1971	110324	0 - .5	22-MAR-93	Chrysene	63.000	J	0 ug/kg
1972	110378	0 - .5	19-MAR-93	Acenaphthylene	1200.000	J	0 ug/kg
1972	110378	0 - .5	19-MAR-93	Anthracene	730.000	-	0 ug/kg
1972	110378	0 - .5	19-MAR-93	Pyrene	8200.000	-	0 ug/kg
1972	110378	0 - .5	19-MAR-93	Phenanthrene	1200.000	J	0 ug/kg
1972	110378	0 - .5	19-MAR-93	Indeno(1,2,3-cd)pyrene	6000.000	-	0 ug/kg
1972	110378	0 - .5	19-MAR-93	Fluoranthene	9200.000	-	0 ug/kg
1972	110378	0 - .5	19-MAR-93	Dibenzo(a,h)anthracene	1900.000	J	0 ug/kg
1972	110378	0 - .5	19-MAR-93	Chrysene	6000.000	-	0 ug/kg
1972	110378	0 - .5	19-MAR-93	Benzo(k)fluoranthene	7300.000	-	0 ug/kg
1972	110378	0 - .5	19-MAR-93	Benzo(g,h,i)perylene	6200.000	-	0 ug/kg
1972	110378	0 - .5	19-MAR-93	Benzo(b)fluoranthene	6200.000	-	0 ug/kg
1972	110378	0 - .5	19-MAR-93	Benzo(a)pyrene	9400.000	-	0 ug/kg
1972	110378	0 - .5	19-MAR-93	Benzo(a)anthracene	5500.000	-	0 ug/kg
1975	110385	0 - .5	22-MAR-93	Fluoranthene	48.000	J	0 ug/kg
1975	110385	0 - .5	22-MAR-93	bis(2-Ethylhexyl) phthalate	64.000	J	0 ug/kg
1976	110340	0 - .5	22-MAR-93	Acenaphthylene	55.000	J	0 ug/kg
1976	110340	0 - .5	22-MAR-93	Benzo(a)anthracene	180.000	J	0 ug/kg

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TABLE F-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
SEMITOLATILE ORGANICS (Continued)							
1976	110340	0 - .5	22-MAR-93	Benzoic acid	56.000	J	0 ug/kg
1976	110340	0 - .5	22-MAR-93	Benzo(k)fluoranthene	290.000	J	0 ug/kg
1976	110340	0 - .5	22-MAR-93	bis(2-Ethylhexyl) phthalate	80.000	J	0 ug/kg
1976	110340	0 - .5	22-MAR-93	Pyrene	270.000	J	0 ug/kg
1976	110340	0 - .5	22-MAR-93	Phenanthrene	81.000	J	0 ug/kg
1976	110340	0 - .5	22-MAR-93	Indeno(1,2,3-cd)pyrene	210.000	J	0 ug/kg
1976	110340	0 - .5	22-MAR-93	Fluoranthene	320.000	J	0 ug/kg
1976	110340	0 - .5	22-MAR-93	Dibenzo(a,h)anthracene	69.000	J	0 ug/kg
1976	110340	0 - .5	22-MAR-93	Chrysene	240.000	J	0 ug/kg
1976	110340	0 - .5	22-MAR-93	Benzo(g,h,i)perylene	210.000	J	0 ug/kg
1976	110340	0 - .5	22-MAR-93	Benzo(b)fluoranthene	240.000	J	0 ug/kg
1976	110340	0 - .5	22-MAR-93	Benzo(a)pyrene	280.000	J	0 ug/kg
1977	110304	0 - .5	19-MAR-93	Acenaphthylene	130.000	J	0 ug/kg
1977	110304	0 - .5	19-MAR-93	Anthracene	130.000	J	0 ug/kg
1977	110304	0 - .5	19-MAR-93	Benzo(a)anthracene	630.000	-	0 ug/kg
1977	110304	0 - .5	19-MAR-93	Benzo(a)pyrene	800.000	-	0 ug/kg
1977	110304	0 - .5	19-MAR-93	bis(2-Ethylhexyl) phthalate	66.000	J	0 ug/kg
1977	110304	0 - .5	19-MAR-93	Pyrene	930.000	-	0 ug/kg
1977	110304	0 - .5	19-MAR-93	Phenanthrene	380.000	J	0 ug/kg
1977	110304	0 - .5	19-MAR-93	Indeno(1,2,3-cd)pyrene	620.000	-	0 ug/kg
1977	110304	0 - .5	19-MAR-93	Fluoranthene	1000.000	-	0 ug/kg
1977	110304	0 - .5	19-MAR-93	Dibenzo(a,h)anthracene	230.000	J	0 ug/kg
1977	110304	0 - .5	19-MAR-93	Chrysene	750.000	-	0 ug/kg
1977	110304	0 - .5	19-MAR-93	Carbazole	67.000	J	0 ug/kg
1977	110304	0 - .5	19-MAR-93	Benzo(k)fluoranthene	710.000	-	0 ug/kg
1977	110304	0 - .5	19-MAR-93	Benzo(g,h,i)perylene	650.000	-	0 ug/kg
1977	110304	0 - .5	19-MAR-93	Benzo(b)fluoranthene	670.000	-	0 ug/kg
1978	110335	0 - .5	22-MAR-93	bis(2-Ethylhexyl) phthalate	82.000	J	0 ug/kg
SF-SS-10	110317	0 - .5	19-MAR-93	Anthracene	87.000	J	0 ug/kg
SF-SS-10	110317	0 - .5	19-MAR-93	bis(2-Ethylhexyl) phthalate	91.000	J	0 ug/kg
SF-SS-10	110317	0 - .5	19-MAR-93	Pyrene	480.000	-	0 ug/kg
SF-SS-10	110317	0 - .5	19-MAR-93	Phenanthrene	410.000	J	0 ug/kg
SF-SS-10	110317	0 - .5	19-MAR-93	Indeno(1,2,3-cd)pyrene	150.000	J	0 ug/kg
SF-SS-10	110317	0 - .5	19-MAR-93	Fluoranthene	640.000	-	0 ug/kg
SF-SS-10	110317	0 - .5	19-MAR-93	Dibenzo(a,h)anthracene	66.000	J	0 ug/kg
SF-SS-10	110317	0 - .5	19-MAR-93	Chrysene	310.000	J	0 ug/kg
SF-SS-10	110317	0 - .5	19-MAR-93	Benzo(k)fluoranthene	240.000	J	0 ug/kg
SF-SS-10	110317	0 - .5	19-MAR-93	Benzo(g,h,i)perylene	150.000	J	0 ug/kg
SF-SS-10	110317	0 - .5	19-MAR-93	Benzo(b)fluoranthene	240.000	J	0 ug/kg
SF-SS-10	110317	0 - .5	19-MAR-93	Benzo(a)pyrene	270.000	J	0 ug/kg
SF-SS-10	110317	0 - .5	19-MAR-93	Benzo(a)anthracene	250.000	J	0 ug/kg
SF-SS-11	110321	0 - .5	19-MAR-93	Benzo(a)pyrene	51.000	J	0 ug/kg
SF-SS-11	110321	0 - .5	19-MAR-93	bis(2-Ethylhexyl) phthalate	65.000	J	0 ug/kg

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TABLE F-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
SEMIVOLATILE ORGANICS (Continued)							
SF-SS-11	110321	0 - .5	19-MAR-93	Pyrene	64.000 J	0	ug/kg
SF-SS-11	110321	0 - .5	19-MAR-93	Fluoranthene	73.000 J	0	ug/kg
SF-SS-11	110321	0 - .5	19-MAR-93	Dimethyl phthalate	62.000 J	0	ug/kg
SF-SS-11	110321	0 - .5	19-MAR-93	Chrysene	60.000 J	0	ug/kg
SF-SS-11	110321	0 - .5	19-MAR-93	Benzo(k)fluoranthene	49.000 J	0	ug/kg
SF-SS-11	110321	0 - .5	19-MAR-93	Benzo(b)fluoranthene	46.000 J	0	ug/kg
SF-SS-11	110321	0 - .5	19-MAR-93	Benzo(g,h,i)perylene	53.000 J	0	ug/kg
SF-SS-16	110343	0 - .5	22-MAR-93	Anthracene	59.000 J	0	ug/kg
SF-SS-16	110343	0 - .5	22-MAR-93	Benzo(a)anthracene	160.000 J	0	ug/kg
SF-SS-16	110343	0 - .5	22-MAR-93	Fluoranthene	340.000 J	0	ug/kg
SF-SS-16	110343	0 - .5	22-MAR-93	Dibenzo(a,h)anthracene	43.000 J	0	ug/kg
SF-SS-16	110343	0 - .5	22-MAR-93	bis(2-Ethylhexyl) phthalate	95.000 J	0	ug/kg
SF-SS-16	110343	0 - .5	22-MAR-93	Pyrene	270.000 J	0	ug/kg
SF-SS-16	110343	0 - .5	22-MAR-93	Phenanthrene	200.000 J	0	ug/kg
SF-SS-16	110343	0 - .5	22-MAR-93	Indeno(1,2,3-cd)pyrene	110.000 J	0	ug/kg
SF-SS-16	110343	0 - .5	22-MAR-93	Chrysene	200.000 J	0	ug/kg
SF-SS-16	110343	0 - .5	22-MAR-93	Benzoic acid	78.000 J	0	ug/kg
SF-SS-16	110343	0 - .5	22-MAR-93	Benzo(k)fluoranthene	180.000 J	0	ug/kg
SF-SS-16	110343	0 - .5	22-MAR-93	Benzo(g,h,i)perylene	100.000 J	0	ug/kg
SF-SS-16	110343	0 - .5	22-MAR-93	Benzo(b)fluoranthene	160.000 J	0	ug/kg
SF-SS-16	110343	0 - .5	22-MAR-93	Benzo(a)pyrene	170.000 J	0	ug/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Acenaphthene	140.000 J	0	ug/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Fluoranthene	4300.000 -	0	ug/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Dibenzofuran	130.000 J	0	ug/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Dibenzo(a,h)anthracene	1100.000 -	0	ug/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Chrysene	3200.000 -	0	ug/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Carbazole	170.000 J	0	ug/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Benzoic acid	52.000 J	0	ug/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Benzo(k)fluoranthene	3300.000 -	0	ug/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Benzo(g,h,i)perylene	3100.000 -	0	ug/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Benzo(b)fluoranthene	3900.000 -	0	ug/kg
SF-SS-17	110297	0 - .5	18-MAR-93	bis(2-Ethylhexyl) phthalate	100.000 J	0	ug/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Pyrene	3500.000 -	0	ug/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Phenanthrene	2300.000 -	0	ug/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Indeno(1,2,3-cd)pyrene	3000.000 -	0	ug/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Fluorene	220.000 J	0	ug/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Benzo(a)pyrene	4700.000 -	0	ug/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Benzo(a)anthracene	2500.000 -	0	ug/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Acenaphthylene	590.000 -	0	ug/kg
SF-SS-17	110297	0 - .5	18-MAR-93	Anthracene	560.000 -	0	ug/kg
SF-SS-18	110287	0 - .5	18-MAR-93	Acenaphthylene	120.000 J	0	ug/kg
SF-SS-18	110287	0 - .5	18-MAR-93	Anthracene	110.000 J	0	ug/kg
SF-SS-18	110287	0 - .5	18-MAR-93	Benzo(a)pyrene	750.000 -	0	ug/kg

TABLE F-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
SEMITOLATILE ORGANICS (Continued)							
SF-SS-18	110287	0 - .5	18-MAR-93	Benzo(a)anthracene	530.000	-	0 ug/kg
SF-SS-18	110287	0 - .5	18-MAR-93	bis(2-Ethylhexyl) phthalate	72.000	J	0 ug/kg
SF-SS-18	110287	0 - .5	18-MAR-93	Pyrene	850.000	-	0 ug/kg
SF-SS-18	110287	0 - .5	18-MAR-93	Phenanthrene	400.000	-	0 ug/kg
SF-SS-18	110287	0 - .5	18-MAR-93	Indeno(1,2,3-cd)pyrene	520.000	-	0 ug/kg
SF-SS-18	110287	0 - .5	18-MAR-93	Fluoranthene	1100.000	-	0 ug/kg
SF-SS-18	110287	0 - .5	18-MAR-93	Dibenzo(a,h)anthracene	180.000	J	0 ug/kg
SF-SS-18	110287	0 - .5	18-MAR-93	Chrysene	670.000	-	0 ug/kg
SF-SS-18	110287	0 - .5	18-MAR-93	Carbazole	48.000	J	0 ug/kg
SF-SS-18	110287	0 - .5	18-MAR-93	Benzo(k)fluoranthene	670.000	-	0 ug/kg
SF-SS-18	110287	0 - .5	18-MAR-93	Benzo(g,h,i)perylene	560.000	-	0 ug/kg
SF-SS-18	110287	0 - .5	18-MAR-93	Benzo(b)fluoranthene	700.000	-	0 ug/kg
SF-SS-19	110365	0 - .5	22-MAR-93	Benzo(a)anthracene	54.000	J	0 ug/kg
SF-SS-19	110365	0 - .5	22-MAR-93	Benzo(k)fluoranthene	71.000	J	0 ug/kg
SF-SS-19	110365	0 - .5	22-MAR-93	Benzo(a)pyrene	59.000	J	0 ug/kg
SF-SS-19	110365	0 - .5	22-MAR-93	Benzo(g,h,i)perylene	62.000	J	0 ug/kg
SF-SS-19	110365	0 - .5	22-MAR-93	Benzo(b)fluoranthene	66.000	J	0 ug/kg
SF-SS-19	110365	0 - .5	22-MAR-93	bis(2-Ethylhexyl) phthalate	83.000	J	0 ug/kg
SF-SS-19	110365	0 - .5	22-MAR-93	Pyrene	80.000	J	0 ug/kg
SF-SS-19	110365	0 - .5	22-MAR-93	Indeno(1,2,3-cd)pyrene	51.000	J	0 ug/kg
SF-SS-19	110365	0 - .5	22-MAR-93	Fluoranthene	87.000	J	0 ug/kg
SF-SS-19	110365	0 - .5	22-MAR-93	Chrysene	77.000	J	0 ug/kg
SF-SS-19	110365	0 - .5	22-MAR-93	Benzoic acid	72.000	J	0 ug/kg
SF-SS-20	110290	0 - .5	19-MAR-93	Benzo(a)anthracene	46.000	J	0 ug/kg
SF-SS-20	110290	0 - .5	19-MAR-93	Benzo(g,h,i)perylene	79.000	J	0 ug/kg
SF-SS-20	110290	0 - .5	19-MAR-93	Benzo(a)pyrene	79.000	J	0 ug/kg
SF-SS-20	110290	0 - .5	19-MAR-93	Benzo(b)fluoranthene	65.000	J	0 ug/kg
SF-SS-20	110290	0 - .5	19-MAR-93	Chrysene	65.000	J	0 ug/kg
SF-SS-20	110290	0 - .5	19-MAR-93	bis(2-Ethylhexyl) phthalate	71.000	J	0 ug/kg
SF-SS-20	110290	0 - .5	19-MAR-93	Pyrene	62.000	J	0 ug/kg
SF-SS-20	110290	0 - .5	19-MAR-93	Indeno(1,2,3-cd)pyrene	45.000	J	0 ug/kg
SF-SS-20	110290	0 - .5	19-MAR-93	Fluoranthene	68.000	J	0 ug/kg
SF-SS-20	110290	0 - .5	19-MAR-93	Benzo(k)fluoranthene	57.000	J	0 ug/kg
PESTICIDES/PCBS							
1972	110378	0 - .5	19-MAR-93	Dieldrin	9.700	-	0 ug/kg
1976	110340	0 - .5	22-MAR-93	Endrin ketone	5.900	J	0 ug/kg
1977	110304	0 - .5	19-MAR-93	Aroclor-1254	89.000	-	0 ug/kg
SF-SS-18	110287	0 - .5	18-MAR-93	Aroclor-1260	38.000	J	0 ug/kg
SF-SS-19	110365	0 - .5	22-MAR-93	Aroclor-1260	52.000	-	0 ug/kg

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TABLE F-2B
SOUTH FIELD
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND IN SUBSURFACE SOIL
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND UNITS
METALS							
1456	055906	3.75 - 3.75	05-NOV-89	Beryllium	1.500 -	.62	mg/kg
1456	055906	3.75 - 3.75	05-NOV-89	Cadmium	4.400 -	.91	mg/kg
1456	055906	3.75 - 3.75	05-NOV-89	Chromium	24.900 -	20.953	mg/kg
1456	055906	3.75 - 3.75	05-NOV-89	Copper	21.700 -	20.23	mg/kg
1456	055906	3.75 - 3.75	05-NOV-89	Silver	2.200 -	0	mg/kg
1456	055906	3.75 - 3.75	05-NOV-89	Nickel	39.500 -	34.747	mg/kg
1456	055906	3.75 - 3.75	05-NOV-89	Lead	19.200 -	15.78	mg/kg
1456	055906	3.75 - 3.75	05-NOV-89	Cobalt	19.100 -	15.929	mg/kg
1459	055919	5 - 5	06-NOV-89	Beryllium	1.400 -	.62	mg/kg
1459	055919	5 - 5	06-NOV-89	Lead	34.000 -	15.78	mg/kg
1459	055919	5 - 5	06-NOV-89	Cadmium	4.100 -	.91	mg/kg
1459	055919	5 - 5	06-NOV-89	Copper	24.300 -	20.23	mg/kg
1459	055919	5 - 5	06-NOV-89	Chromium	23.800 -	20.953	mg/kg
1462	055932	4 - 4	07-NOV-89	Cadmium	4.600 -	.91	mg/kg
1462	055932	4 - 4	07-NOV-89	Chromium	24.000 -	20.953	mg/kg
1465	055945	3.5 - 3.5	08-NOV-89	Barium	198.000 -	121.064	mg/kg
1465	055945	3.5 - 3.5	08-NOV-89	Cadmium	4.500 -	.91	mg/kg
1465	055945	3.5 - 3.5	08-NOV-89	Nickel	38.000 -	34.747	mg/kg
1465	055945	3.5 - 3.5	08-NOV-89	Lead	20.900 -	15.78	mg/kg
1465	055945	3.5 - 3.5	08-NOV-89	Chromium	25.300 -	20.953	mg/kg
1465	055945	3.5 - 3.5	08-NOV-89	Beryllium	1.300 -	.62	mg/kg
1468	055959	2.5 - 2.5	14-NOV-89	Beryllium	1.600 -	.62	mg/kg
1468	055959	2.5 - 2.5	14-NOV-89	Cadmium	3.000 -	.91	mg/kg
1468	055959	2.5 - 2.5	14-NOV-89	Sodium	235.000 -	227.947	mg/kg
1468	055959	2.5 - 2.5	14-NOV-89	Lead	21.000 -	15.78	mg/kg
1468	055959	2.5 - 2.5	14-NOV-89	Chromium	21.300 -	20.953	mg/kg
1471	055972	4 - 4	16-NOV-89	Cadmium	3.100 -	.91	mg/kg
1471	055972	4 - 4	16-NOV-89	Silver	1.800 -	0	mg/kg
1471	055972	4 - 4	16-NOV-89	Nickel	36.400 -	34.747	mg/kg
1792	067343	1.5 - 3	21-AUG-91	Antimony	7.800 J	0	mg/kg
1792	067343	1.5 - 3	21-AUG-91	Beryllium	1.000 -	.62	mg/kg
1792	067343	1.5 - 3	21-AUG-91	Silver	2.200 -	0	mg/kg
1792	067343	1.5 - 3	21-AUG-91	Molybdenum	15.800 -	.27	mg/kg
1792	067343	1.5 - 3	21-AUG-91	Copper	20.300 -	20.23	mg/kg
1792	067343	1.5 - 3	21-AUG-91	Chromium	21.000 -	20.953	mg/kg
1792	067343	1.5 - 3	21-AUG-91	Barium	123.000 -	121.064	mg/kg

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TABLE F-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND	UNITS
METALS (Continued)								
1792	067346	6 - 7.5	21-AUG-91	Antimony	29.700	J	0	mg/kg
1792	067346	6 - 7.5	21-AUG-91	Cadmium	4.900	J	.91	mg/kg
1792	067346	6 - 7.5	21-AUG-91	Beryllium	.800	-	.62	mg/kg
1792	067346	6 - 7.5	21-AUG-91	Calcium	165000.000	-	150000	mg/kg
1792	067346	6 - 7.5	21-AUG-91	Molybdenum	13.000	J	.27	mg/kg
1792	067346	6 - 7.5	21-AUG-91	Chromium	27.300	-	20.953	mg/kg
1792	067346	6 - 7.5	21-AUG-91	Silver	16.200	-	0	mg/kg
1792	067350	12 - 13.5	21-AUG-91	Antimony	21.400	J	0	mg/kg
1792	067350	12 - 13.5	21-AUG-91	Beryllium	.850	-	.62	mg/kg
1792	067350	12 - 13.5	21-AUG-91	Lead	1140.000	-	15.78	mg/kg
1792	067350	12 - 13.5	21-AUG-91	Silver	13.200	J	0	mg/kg
1792	067350	12 - 13.5	21-AUG-91	Molybdenum	13.400	J	.27	mg/kg
1792	067350	12 - 13.5	21-AUG-91	Chromium	31.900	-	20.953	mg/kg
1792	067350	12 - 13.5	21-AUG-91	Cadmium	3.200	J	.91	mg/kg
1792	067353	16.5 - 18	22-AUG-91	Antimony	18.700	J	0	mg/kg
1792	067353	16.5 - 18	22-AUG-91	Silver	13.300	J	0	mg/kg
1792	067353	16.5 - 18	22-AUG-91	Molybdenum	14.100	J	.27	mg/kg
1792	067353	16.5 - 18	22-AUG-91	Lead	17.100	-	15.78	mg/kg
1792	067353	16.5 - 18	22-AUG-91	Chromium	29.100	-	20.953	mg/kg
1792	067353	16.5 - 18	22-AUG-91	Cadmium	2.900	J	.91	mg/kg
1792	067353	16.5 - 18	22-AUG-91	Beryllium	.930	-	.62	mg/kg
1792	067356	21.5 - 23	22-AUG-91	Antimony	13.800	J	0	mg/kg
1792	067356	21.5 - 23	22-AUG-91	Silver	9.400	-	0	mg/kg
1792	067356	21.5 - 23	22-AUG-91	Molybdenum	14.800	-	.27	mg/kg
1792	067356	21.5 - 23	22-AUG-91	Lead	16.400	-	15.78	mg/kg
1792	067356	21.5 - 23	22-AUG-91	Copper	21.500	-	20.23	mg/kg
1792	067356	21.5 - 23	22-AUG-91	Beryllium	.970	-	.62	mg/kg
1792	067356	21.5 - 23	22-AUG-91	Chromium	27.200	-	20.953	mg/kg
1792	067356	21.5 - 23	22-AUG-91	Cadmium	1.800	J	.91	mg/kg
1793	067333	3 - 4.5	15-AUG-91	Beryllium	.990	-	.62	mg/kg
1793	067333	3 - 4.5	15-AUG-91	Silver	4.700	-	0	mg/kg
1793	067333	3 - 4.5	15-AUG-91	Molybdenum	14.600	-	.27	mg/kg
1793	067333	3 - 4.5	15-AUG-91	Lead	16.100	-	15.78	mg/kg
1793	067333	3 - 4.5	15-AUG-91	Copper	21.300	-	20.23	mg/kg
1793	067333	3 - 4.5	15-AUG-91	Chromium	22.900	-	20.953	mg/kg
1794	067324	0 - 1	13-AUG-91	Antimony	14.900	J	0	mg/kg
1794	067324	0 - 1	13-AUG-91	Barium	173.000	-	121.064	mg/kg
1794	067324	0 - 1	13-AUG-91	Lead	18.200	-	15.78	mg/kg
1794	067324	0 - 1	13-AUG-91	Silver	8.600	-	0	mg/kg
1794	067324	0 - 1	13-AUG-91	Molybdenum	14.900	-	.27	mg/kg
1794	067324	0 - 1	13-AUG-91	Sodium	522.000	-	227.947	mg/kg
1794	067324	0 - 1	13-AUG-91	Manganese	1060.000	-	1045.407	mg/kg
1794	067324	0 - 1	13-AUG-91	Copper	26.800	-	20.23	mg/kg

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TABLE F-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND UNITS
<u>METALS (Continued)</u>							
1794	067324	0 - 1	13-AUG-91	Cobalt	23.200	-	15.929 mg/kg
1794	067324	0 - 1	13-AUG-91	Chromium	25.800	-	20.953 mg/kg
1794	067324	0 - 1	13-AUG-91	Cadmium	1.700	J	.91 mg/kg
1794	067324	0 - 1	13-AUG-91	Beryllium	1.100	-	.62 mg/kg
1794	067328	2 - 2.5	13-AUG-91	Antimony	22.300	J	0 mg/kg
1794	067328	2 - 2.5	13-AUG-91	Silver	13.200	-	0 mg/kg
1794	067328	2 - 2.5	13-AUG-91	Molybdenum	12.300	-	.27 mg/kg
1794	067328	2 - 2.5	13-AUG-91	Mercury	.310	-	.29 mg/kg
1794	067328	2 - 2.5	13-AUG-91	Chromium	26.900	-	20.953 mg/kg
1794	067328	2 - 2.5	13-AUG-91	Cadmium	3.400	J	.91 mg/kg
1794	067328	2 - 2.5	13-AUG-91	Beryllium	.870	-	.62 mg/kg
1795	067367	0 - 1	23-AUG-91	Antimony	10.200	J	0 mg/kg
1795	067367	0 - 1	23-AUG-91	Cadmium	1.500	J	.91 mg/kg
1795	067367	0 - 1	23-AUG-91	Beryllium	.770	-	.62 mg/kg
1795	067367	0 - 1	23-AUG-91	Chromium	24.700	-	20.953 mg/kg
1795	067367	0 - 1	23-AUG-91	Silver	8.000	-	0 mg/kg
1795	067367	0 - 1	23-AUG-91	Silver	.080	-	0 mg/L
1795	067367	0 - 1	23-AUG-91	Silicon	1530.000	J	1069.496 mg/kg
1795	067367	0 - 1	23-AUG-91	Selenium	.129	-	0 mg/L
1795	067367	0 - 1	23-AUG-91	Molybdenum	14.500	-	.27 mg/kg
1795	067370	3 - 4	23-AUG-91	Antimony	7.900	J	0 mg/kg
1795	067370	3 - 4	23-AUG-91	Barium	159.000	-	121.064 mg/kg
1795	067370	3 - 4	23-AUG-91	Cyanide	2.600	-	.17 mg/kg
1795	067370	3 - 4	23-AUG-91	Silver	2.500	-	0 mg/kg
1795	067370	3 - 4	23-AUG-91	Copper	21.300	-	20.23 mg/kg
1795	067370	3 - 4	23-AUG-91	Molybdenum	15.500	-	.27 mg/kg
1795	067370	3 - 4	23-AUG-91	Beryllium	.820	-	.62 mg/kg
SPA-5	039180	- 5	29-JUL-92	Molybdenum	3.400	-	.27 mg/kg
SPC-5	039179	- 5	30-JUL-92	Molybdenum	4.400	-	.27 mg/kg
<u>RADIOMUCLIDES</u>							
1014	007354	1.5 - 3	17-OCT-87	TH-230	2.000	-	1.897 pCi/g
1014	007354	1.5 - 3	17-OCT-87	U-234	1.400	-	1.034 pCi/g
1014	007354	1.5 - 3	17-OCT-87	U-238	1.400	-	1.122 pCi/g
1046	008014	0 - 1.5	06-FEB-88	U-234	1.700	-	1.034 pCi/g
1046	008014	0 - 1.5	06-FEB-88	U-238	2.100	-	1.122 pCi/g
1407	098001	.5 - 1	16-MAY-89	U-TOTAL	6.000	-	2.54 mg/kg
1407	098002	1.5 - 2	16-MAY-89	U-TOTAL	5.000	-	2.54 mg/kg
1407	098003	3 - 3.5	16-MAY-89	U-TOTAL	3.000	-	2.54 mg/kg
1407	098004	4.5 - 5	16-MAY-89	U-TOTAL	4.000	-	2.54 mg/kg
1407	098008	7.5 - 8	16-MAY-89	U-TOTAL	5.000	-	2.54 mg/kg
1433	047019	2 - 5	29-JUL-92	RA-226	7.670	-	1.47 pCi/g
1433	047019	2 - 5	29-JUL-92	TH-228	20.300	J	1.341 pCi/g

TABLE F-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)							
1433	047019	2 - 5	29-JUL-92	U-238	41.300 J	1.122	pCi/g
1433	047019	2 - 5	29-JUL-92	U-235/236	2.240 J	.142	pCi/g
1433	047019	2 - 5	29-JUL-92	U-TOTAL	128.000 -	2.54	mg/kg
1433	047019	2 - 5	29-JUL-92	TH-TOTAL	158.000 J	9.47	mg/kg
1433	047019	2 - 5	29-JUL-92	U-234	41.200 J	1.034	pCi/g
1433	047019	2 - 5	29-JUL-92	TH-232	17.500 J	1.269	pCi/g
1433	047019	2 - 5	29-JUL-92	TH-230	5.860 J	1.897	pCi/g
1433	047019	2 - 5	29-JUL-92	SR-90	1.910 -	.56	pCi/g
1433	047019	2 - 5	29-JUL-92	RA-228	19.000 -	1.325	pCi/g
1455	055900	- 3	04-NOV-89	RA-226	5.930 J	1.47	pCi/g
1455	055900	- 3	04-NOV-89	U-TOTAL	42.600 J	2.54	mg/kg
1455	055900	- 3	04-NOV-89	U-238	14.600 -	1.122	pCi/g
1455	055900	- 3	04-NOV-89	U-235/236	.748 -	.142	pCi/g
1455	055900	- 3	04-NOV-89	U-234	12.600 -	1.034	pCi/g
1455	055900	- 3	04-NOV-89	TH-TOTAL	11.600 -	9.47	mg/kg
1455	055900	- 3	04-NOV-89	TH-232	1.290 -	1.269	pCi/g
1455	055900	- 3	04-NOV-89	TH-230	10.300 J	1.897	pCi/g
1455	055900	- 3	04-NOV-89	TH-228	1.520 J	1.341	pCi/g
1455	055901	- 3.75	04-NOV-89	RA-228	1.580 J	1.325	pCi/g
1455	055901	- 3.75	04-NOV-89	TH-TOTAL	10.700 -	9.47	mg/kg
1455	055901	- 3.75	04-NOV-89	U-234	2.440 -	1.034	pCi/g
1455	055901	- 3.75	04-NOV-89	U-TOTAL	10.300 J	2.54	mg/kg
1455	055901	- 3.75	04-NOV-89	U-238	3.100 -	1.122	pCi/g
1455	055901	- 3.75	04-NOV-89	TH-228	1.420 J	1.341	pCi/g
1455	055901	- 3.75	04-NOV-89	TH-230	2.120 J	1.897	pCi/g
1456	055902	- 3.75	04-NOV-89	PU-239/240	1.230 -	0	pCi/g
1456	055902	- 3.75	04-NOV-89	U-234	9.360 -	1.034	pCi/g
1456	055902	- 3.75	04-NOV-89	U-235/236	.665 -	.142	pCi/g
1456	055902	- 3.75	04-NOV-89	U-TOTAL	27.700 J	2.54	mg/kg
1456	055902	- 3.75	04-NOV-89	U-238	10.600 -	1.122	pCi/g
1456	055903	- 4.25	04-NOV-89	U-234	22.100 -	1.034	pCi/g
1456	055903	- 4.25	04-NOV-89	U-235/236	1.120 -	.142	pCi/g
1456	055903	- 4.25	04-NOV-89	U-238	22.600 -	1.122	pCi/g
1457	055904	- 3.75	04-NOV-89	RA-226	15.700 J	1.47	pCi/g
1457	055904	- 3.75	04-NOV-89	RA-228	2.460 J	1.325	pCi/g
1457	055904	- 3.75	04-NOV-89	U-TOTAL	71.400 J	2.54	mg/kg
1457	055904	- 3.75	04-NOV-89	U-238	28.100 -	1.122	pCi/g
1457	055904	- 3.75	04-NOV-89	U-235/236	1.660 -	.142	pCi/g
1457	055904	- 3.75	04-NOV-89	U-234	26.400 -	1.034	pCi/g
1457	055904	- 3.75	04-NOV-89	TH-TOTAL	31.000 -	9.47	mg/kg
1457	055904	- 3.75	04-NOV-89	TH-232	3.440 -	1.269	pCi/g
1457	055904	- 3.75	04-NOV-89	TH-230	57.300 J	1.897	pCi/g
1457	055904	- 3.75	04-NOV-89	TH-228	2.630 J	1.341	pCi/g

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000472

6509
FEMP-OIU02-6 FINAL
January 21, 1995

TABLE F-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)							
1457	055905	4.25 - 4.45	04-NOV-89	RA-228	1.560 J	1.325	pCi/g
1457	055905	4.25 - 4.45	04-NOV-89	U-234	4.060 -	1.034	pCi/g
1457	055905	4.25 - 4.45	04-NOV-89	TH-TOTAL	11.600 -	9.47	mg/kg
1457	055905	4.25 - 4.45	04-NOV-89	TH-232	1.290 -	1.269	pCi/g
1457	055905	4.25 - 4.45	04-NOV-89	U-TOTAL	11.900 J	2.54	mg/kg
1457	055905	4.25 - 4.45	04-NOV-89	U-238	4.410 -	1.122	pCi/g
1457	055905	4.25 - 4.45	04-NOV-89	TH-230	2.160 J	1.897	pCi/g
1458	055913	3.8 - 3.9	06-NOV-89	RA-226	1.480 J	1.47	pCi/g
1458	055913	3.8 - 3.9	06-NOV-89	TH-228	1.780 J	1.341	pCi/g
1458	055913	3.8 - 3.9	06-NOV-89	U-TOTAL	76.100 J	2.54	mg/kg
1458	055913	3.8 - 3.9	06-NOV-89	U-238	23.700 -	1.122	pCi/g
1458	055913	3.8 - 3.9	06-NOV-89	U-235/236	1.580 -	.142	pCi/g
1458	055913	3.8 - 3.9	06-NOV-89	U-234	24.200 -	1.034	pCi/g
1458	055913	3.8 - 3.9	06-NOV-89	TH-TOTAL	15.700 -	9.47	mg/kg
1458	055913	3.8 - 3.9	06-NOV-89	TH-232	1.740 -	1.269	pCi/g
1458	055913	3.8 - 3.9	06-NOV-89	TH-230	3.180 J	1.897	pCi/g
1458	055914	4.5 - 4.6	06-NOV-89	RA-228	1.950 J	1.325	pCi/g
1458	055914	4.5 - 4.6	06-NOV-89	TH-228	2.060 J	1.341	pCi/g
1458	055914	4.5 - 4.6	06-NOV-89	U-TOTAL	59.800 J	2.54	mg/kg
1458	055914	4.5 - 4.6	06-NOV-89	U-238	23.600 -	1.122	pCi/g
1458	055914	4.5 - 4.6	06-NOV-89	U-235/236	1.180 -	.142	pCi/g
1458	055914	4.5 - 4.6	06-NOV-89	U-234	22.400 -	1.034	pCi/g
1458	055914	4.5 - 4.6	06-NOV-89	TH-TOTAL	16.900 -	9.47	mg/kg
1458	055914	4.5 - 4.6	06-NOV-89	TH-232	1.870 -	1.269	pCi/g
1458	055914	4.5 - 4.6	06-NOV-89	TH-230	4.410 J	1.897	pCi/g
1459	055915	5 - 5.1	06-NOV-89	RA-226	1.600 J	1.47	pCi/g
1459	055915	5 - 5.1	06-NOV-89	RA-228	1.370 J	1.325	pCi/g
1459	055915	5 - 5.1	06-NOV-89	U-TOTAL	228.000 J	2.54	mg/kg
1459	055915	5 - 5.1	06-NOV-89	U-238	82.700 -	1.122	pCi/g
1459	055915	5 - 5.1	06-NOV-89	U-235/236	4.050 -	.142	pCi/g
1459	055915	5 - 5.1	06-NOV-89	U-234	78.300 -	1.034	pCi/g
1459	055915	5 - 5.1	06-NOV-89	TH-TOTAL	11.800 -	9.47	mg/kg
1459	055915	5 - 5.1	06-NOV-89	TH-232	1.310 -	1.269	pCi/g
1459	055915	5 - 5.1	06-NOV-89	TH-228	1.520 J	1.341	pCi/g
1459	055916	5.75 - 5.85	06-NOV-89	TH-228	1.620 J	1.341	pCi/g
1459	055916	5.75 - 5.85	06-NOV-89	TH-230	2.160 J	1.897	pCi/g
1459	055916	5.75 - 5.85	06-NOV-89	TH-TOTAL	12.000 -	9.47	mg/kg
1459	055916	5.75 - 5.85	06-NOV-89	U-234	57.200 -	1.034	pCi/g
1459	055916	5.75 - 5.85	06-NOV-89	U-TOTAL	189.000 J	2.54	mg/kg
1459	055916	5.75 - 5.85	06-NOV-89	U-238	60.800 -	1.122	pCi/g
1459	055916	5.75 - 5.85	06-NOV-89	U-235/236	2.730 -	.142	pCi/g
1459	055916	5.75 - 5.85	06-NOV-89	TH-232	1.330 -	1.269	pCi/g
1460	055917	3.5 - 3.6	06-NOV-89	U-234	119.000 -	1.034	pCi/g

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000473

TABLE F-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND	UNITS
<u>RADIONUCLIDES (Continued)</u>								
1460	055917	3.5 - 3.6	06-NOV-89	U-235/236	20.600	-	.142	pCi/g
1460	055917	3.5 - 3.6	06-NOV-89	U-238	131.000	-	1.122	pCi/g
1460	055917	3.5 - 3.6	06-NOV-89	U-TOTAL	394.000	J	2.54	mg/kg
1460	055918	4.25 - 4.45	06-NOV-89	TH-230	3.220	J	1.897	pCi/g
1460	055918	4.25 - 4.45	06-NOV-89	U-235/236	3.770	-	.142	pCi/g
1460	055918	4.25 - 4.45	06-NOV-89	U-234	75.700	-	1.034	pCi/g
1460	055918	4.25 - 4.45	06-NOV-89	U-TOTAL	230.000	J	2.54	mg/kg
1460	055918	4.25 - 4.45	06-NOV-89	U-238	78.800	-	1.122	pCi/g
1460	055918	4.25 - 4.45	06-NOV-89	TH-TOTAL	10.100	-	9.47	mg/kg
1461	055926	4 - 4.2	07-NOV-89	TH-230	4.120	J	1.897	pCi/g
1461	055926	4 - 4.2	07-NOV-89	U-TOTAL	19.100	J	2.54	mg/kg
1461	055926	4 - 4.2	07-NOV-89	U-238	5.580	-	1.122	pCi/g
1461	055926	4 - 4.2	07-NOV-89	U-234	4.730	-	1.034	pCi/g
1461	055927	5 - 5.2	07-NOV-89	RA-226	1.650	J	1.47	pCi/g
1461	055927	5 - 5.2	07-NOV-89	TH-230	2.130	J	1.897	pCi/g
1461	055927	5 - 5.2	07-NOV-89	TH-228	1.720	J	1.341	pCi/g
1461	055927	5 - 5.2	07-NOV-89	TH-232	1.400	-	1.269	pCi/g
1461	055927	5 - 5.2	07-NOV-89	U-234	1.490	-	1.034	pCi/g
1461	055927	5 - 5.2	07-NOV-89	U-TOTAL	5.170	J	2.54	mg/kg
1461	055927	5 - 5.2	07-NOV-89	U-238	1.420	-	1.122	pCi/g
1461	055927	5 - 5.2	07-NOV-89	TH-TOTAL	12.600	-	9.47	mg/kg
1461	055927	5 - 5.2	07-NOV-89	RA-228	1.410	J	1.325	pCi/g
1462	055928	4 - 4.2	07-NOV-89	TH-230	3.330	J	1.897	pCi/g
1462	055928	4 - 4.2	07-NOV-89	U-TOTAL	19.400	J	2.54	mg/kg
1462	055928	4 - 4.2	07-NOV-89	U-234	5.040	-	1.034	pCi/g
1462	055928	4 - 4.2	07-NOV-89	U-238	6.210	-	1.122	pCi/g
1462	055929	5 - 5.2	07-NOV-89	RA-228	1.370	J	1.325	pCi/g
1462	055929	5 - 5.2	07-NOV-89	U-TOTAL	14.800	J	2.54	mg/kg
1462	055929	5 - 5.2	07-NOV-89	U-238	4.700	-	1.122	pCi/g
1462	055929	5 - 5.2	07-NOV-89	U-234	4.710	-	1.034	pCi/g
1462	055929	5 - 5.2	07-NOV-89	TH-TOTAL	11.500	-	9.47	mg/kg
1462	055929	5 - 5.2	07-NOV-89	TH-232	1.270	-	1.269	pCi/g
1462	055929	5 - 5.2	07-NOV-89	TH-230	2.060	J	1.897	pCi/g
1463	055930	3.5 - 3.7	07-NOV-89	TH-228	5.320	J	1.341	pCi/g
1463	055930	3.5 - 3.7	07-NOV-89	U-TOTAL	121.000	-	2.54	mg/kg
1463	055930	3.5 - 3.7	07-NOV-89	U-238	61.400	-	1.122	pCi/g
1463	055930	3.5 - 3.7	07-NOV-89	U-235/236	2.550	J	.142	pCi/g
1463	055930	3.5 - 3.7	07-NOV-89	U-234	19.700	-	1.034	pCi/g
1463	055930	3.5 - 3.7	07-NOV-89	TH-230	4.390	J	1.897	pCi/g
1463	055931	4.5 - 4.7	07-NOV-89	RA-226	1.510	J	1.47	pCi/g
1463	055931	4.5 - 4.7	07-NOV-89	TH-TOTAL	10.400	-	9.47	mg/kg
1463	055931	4.5 - 4.7	07-NOV-89	TH-230	2.010	J	1.897	pCi/g
1463	055931	4.5 - 4.7	07-NOV-89	U-TOTAL	5.520	J	2.54	mg/kg

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TABLE F-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)							
1463	055931	4.5 - 4.7	07-NOV-89	U-238	1.460 -	1.122	pCi/g
1463	055931	4.5 - 4.7	07-NOV-89	U-234	1.150 -	1.034	pCi/g
1464	055939	3.75 - 3.95	08-NOV-89	U-234	1.080 -	1.034	pCi/g
1464	055939	3.75 - 3.95	08-NOV-89	U-238	1.370 -	1.122	pCi/g
1464	055940	- 4.5	08-NOV-89	TH-228	1.480 J	1.341	pCi/g
1464	055940	- 4.5	08-NOV-89	U-234	1.960 -	1.034	pCi/g
1464	055940	- 4.5	08-NOV-89	TH-TOTAL	11.100 -	9.47	mg/kg
1464	055940	- 4.5	08-NOV-89	U-TOTAL	5.030 J	2.54	mg/kg
1464	055940	- 4.5	08-NOV-89	U-238	1.760 -	1.122	pCi/g
1465	055941	- 3.5	08-NOV-89	U-234	1.680 -	1.034	pCi/g
1465	055941	- 3.5	08-NOV-89	U-235/236	.757 J	.142	pCi/g
1465	055942	- 4.5	08-NOV-89	U-234	3.270 -	1.034	pCi/g
1465	055942	- 4.5	08-NOV-89	U-238	3.500 -	1.122	pCi/g
1465	055942	- 4.5	08-NOV-89	U-TOTAL	4.260 J	2.54	mg/kg
1466	055943	- 3	08-NOV-89	U-234	1.130 -	1.034	pCi/g
1466	055943	- 3	08-NOV-89	U-238	1.260 -	1.122	pCi/g
1466	055944	- 4.5	08-NOV-89	RA-226	1.560 J	1.47	pCi/g
1466	055944	- 4.5	08-NOV-89	TH-228	1.350 J	1.341	pCi/g
1466	055944	- 4.5	08-NOV-89	U-234	4.710 -	1.034	pCi/g
1466	055944	- 4.5	08-NOV-89	TH-TOTAL	10.300 -	9.47	mg/kg
1466	055944	- 4.5	08-NOV-89	U-238	5.360 -	1.122	pCi/g
1466	055944	- 4.5	08-NOV-89	U-TOTAL	4.720 J	2.54	mg/kg
1466	055944	- 4.5	08-NOV-89	RA-228	1.460 J	1.325	pCi/g
1466	055944	- 4.5	08-NOV-89	SR-90	.920 -	.56	pCi/g
1467	055952	- 2.5	14-NOV-89	U-234	3.820 J	1.034	pCi/g
1467	055952	- 2.5	14-NOV-89	U-238	4.140 J	1.122	pCi/g
1467	055952	- 2.5	14-NOV-89	U-TOTAL	11.380 -	2.54	mg/kg
1467	055953	- 3.5	14-NOV-89	RA-226	1.560 -	1.47	pCi/g
1467	055953	- 3.5	14-NOV-89	U-TOTAL	8.590 -	2.54	mg/kg
1467	055953	- 3.5	14-NOV-89	U-238	1.320 J	1.122	pCi/g
1467	055953	- 3.5	14-NOV-89	TH-TOTAL	10.600 J	9.47	mg/kg
1467	055953	- 3.5	14-NOV-89	TH-230	1.990 J	1.897	pCi/g
1467	055953	- 3.5	14-NOV-89	RA-228	1.350 -	1.325	pCi/g
1468	055954	- 2.5	14-NOV-89	U-234	3.420 J	1.034	pCi/g
1468	055954	- 2.5	14-NOV-89	U-238	3.560 J	1.122	pCi/g
1468	055954	- 2.5	14-NOV-89	U-TOTAL	12.260 J	2.54	mg/kg
1468	055955	- 3.5	14-NOV-89	RA-226	1.580 J	1.47	pCi/g
1468	055955	- 3.5	14-NOV-89	U-238	1.320 J	1.122	pCi/g
1468	055955	- 3.5	14-NOV-89	TH-TOTAL	10.200 J	9.47	mg/kg
1468	055955	- 3.5	14-NOV-89	U-234	1.310 J	1.034	pCi/g
1469	055956	- 2.5	14-NOV-89	U-234	2.590 J	1.034	pCi/g
1469	055956	- 2.5	14-NOV-89	U-TOTAL	10.890 J	2.54	mg/kg
1469	055956	- 2.5	14-NOV-89	U-238	3.180 J	1.122	pCi/g

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000475

TABLE F-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND	UNITS
<u>RADIONUCLIDES (Continued)</u>								
1469	055957	- 3.5	14-NOV-89	RA-228	1.390 J		1.325	pCi/g
1469	055957	- 3.5	14-NOV-89	U-TOTAL	4.960 J		2.54	mg/kg
1469	055957	- 3.5	14-NOV-89	U-238	1.380 J		1.122	pCi/g
1469	055957	- 3.5	14-NOV-89	U-234	1.140 J		1.034	pCi/g
1470	055966	- 3	15-NOV-89	TH-230	1.940 -		1.897	pCi/g
1470	055966	- 3	15-NOV-89	TH-TOTAL	9.700 -		9.47	mg/kg
1470	055966	- 3	15-NOV-89	U-234	3.790 -		1.034	pCi/g
1470	055966	- 3	15-NOV-89	U-238	4.040 -		1.122	pCi/g
1470	055966	- 3	15-NOV-89	U-TOTAL	11.600 -		2.54	mg/kg
1470	055967	- 4	15-NOV-89	SR-90	.660 J		.56	pCi/g
1470	055967	- 4	15-NOV-89	TC-99	.900 -		0	pCi/g
1470	055967	- 4	15-NOV-89	U-TOTAL	5.060 -		2.54	mg/kg
1470	055967	- 4	15-NOV-89	U-238	1.610 -		1.122	pCi/g
1470	055967	- 4	15-NOV-89	U-234	1.510 -		1.034	pCi/g
1471	055968	- 4	16-NOV-89	TC-99	.900 -		0	pCi/g
1471	055968	- 4	16-NOV-89	U-TOTAL	6.890 -		2.54	mg/kg
1471	055968	- 4	16-NOV-89	U-238	2.120 -		1.122	pCi/g
1471	055968	- 4	16-NOV-89	U-234	1.520 -		1.034	pCi/g
1471	055969	- 5.5	16-NOV-89	TH-230	1.900 -		1.897	pCi/g
1471	055969	- 5.5	16-NOV-89	U-TOTAL	5.240 -		2.54	mg/kg
1471	055969	- 5.5	16-NOV-89	U-238	1.350 -		1.122	pCi/g
1471	055969	- 5.5	16-NOV-89	U-234	1.040 -		1.034	pCi/g
1472	055970	- 4	16-NOV-89	TH-230	2.860 -		1.897	pCi/g
1472	055970	- 4	16-NOV-89	U-238	3.640 -		1.122	pCi/g
1472	055970	- 4	16-NOV-89	U-234	3.460 -		1.034	pCi/g
1472	055970	- 4	16-NOV-89	U-TOTAL	10.200 -		2.54	mg/kg
1472	055971	- 5	16-NOV-89	SR-90	1.100 J		.56	pCi/g
1472	055971	- 5	16-NOV-89	U-234	2.130 -		1.034	pCi/g
1472	055971	- 5	16-NOV-89	TH-TOTAL	9.490 -		9.47	mg/kg
1472	055971	- 5	16-NOV-89	U-TOTAL	9.900 -		2.54	mg/kg
1472	055971	- 5	16-NOV-89	U-238	2.060 -		1.122	pCi/g
1473	055979	- 3.5	17-NOV-89	TH-228	1.470 -		1.341	pCi/g
1473	055979	- 3.5	17-NOV-89	U-234	1.680 J		1.034	pCi/g
1473	055979	- 3.5	17-NOV-89	U-238	1.860 J		1.122	pCi/g
1473	055979	- 3.5	17-NOV-89	U-TOTAL	7.020 J		2.54	mg/kg
1473	055981	- 10	17-NOV-89	U-234	1.150 J		1.034	pCi/g
1474	055982	- 3.5	17-NOV-89	U-234	1.790 J		1.034	pCi/g
1474	055982	- 3.5	17-NOV-89	U-238	1.890 J		1.122	pCi/g
1474	055982	- 3.5	17-NOV-89	U-TOTAL	9.920 -		2.54	mg/kg
1474	055983	- 5	17-NOV-89	U-TOTAL	3.090 -		2.54	mg/kg
1474	055984	- 10	17-NOV-89	U-234	1.500 J		1.034	pCi/g
1474	055984	- 10	17-NOV-89	U-238	1.380 J		1.122	pCi/g
1475	055985	- 3.75	17-NOV-89	TH-230	2.840 -		1.897	pCi/g

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6509
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January 21, 1995

000476

TABLE F-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)							
1475	055985	- 3.75	17-NOV-89	U-234	1.850	J	1.034 pCi/g
1475	055985	- 3.75	17-NOV-89	U-238	2.100	J	1.122 pCi/g
1475	055985	- 3.75	17-NOV-89	U-TOTAL	8.280	-	2.54 mg/kg
1475	055986	- 5	17-NOV-89	TH-230	2.160	-	1.897 pCi/g
1475	055986	- 5	17-NOV-89	TH-TOTAL	9.720	-	9.47 mg/kg
1475	055986	- 5	17-NOV-89	U-TOTAL	3.290	-	2.54 mg/kg
1475	055987	- 10	17-NOV-89	U-234	1.040	J	1.034 pCi/g
1516	055371	0 - .5	19-MAY-90	NP-237	.600	J	0 pCi/g
1516	055371	0 - .5	19-MAY-90	U-238	7.000	J	1.122 pCi/g
1516	055371	0 - .5	19-MAY-90	U-235/236	.600	J	.142 pCi/g
1516	055371	0 - .5	19-MAY-90	U-234	4.640	J	1.034 pCi/g
1516	055371	0 - .5	19-MAY-90	TH-TOTAL	10.000	-	9.47 mg/kg
1516	055371	0 - .5	19-MAY-90	TH-230	5.590	-	1.897 pCi/g
1516	055371	0 - .5	19-MAY-90	TC-99	.900	J	0 pCi/g
1516	055371	0 - .5	19-MAY-90	PU-238	.600	J	0 pCi/g
1516	055371	0 - .5	19-MAY-90	PU-239/240	.600	J	0 pCi/g
1516	055373	1 - 1.5	19-MAY-90	NP-237	.600	J	0 pCi/g
1516	055373	1 - 1.5	19-MAY-90	TH-230	3.070	-	1.897 pCi/g
1516	055373	1 - 1.5	19-MAY-90	TC-99	.900	J	0 pCi/g
1516	055373	1 - 1.5	19-MAY-90	U-234	2.640	J	1.034 pCi/g
1516	055373	1 - 1.5	19-MAY-90	U-238	2.720	J	1.122 pCi/g
1516	055373	1 - 1.5	19-MAY-90	U-235/236	.600	J	.142 pCi/g
1516	055373	1 - 1.5	19-MAY-90	PU-239/240	.600	J	0 pCi/g
1516	055373	1 - 1.5	19-MAY-90	PU-238	.600	J	0 pCi/g
1516	055375	2 - 2.5	19-MAY-90	NP-237	.600	J	0 pCi/g
1516	055375	2 - 2.5	19-MAY-90	U-238	1.410	J	1.122 pCi/g
1516	055375	2 - 2.5	19-MAY-90	U-235/236	.600	J	.142 pCi/g
1516	055375	2 - 2.5	19-MAY-90	U-234	1.290	J	1.034 pCi/g
1516	055375	2 - 2.5	19-MAY-90	TC-99	.900	J	0 pCi/g
1516	055375	2 - 2.5	19-MAY-90	PU-239/240	.600	J	0 pCi/g
1516	055375	2 - 2.5	19-MAY-90	PU-238	.600	J	0 pCi/g
1516	055377	3 - 3.5	19-MAY-90	CS-137	.200	J	0 pCi/g
1516	055377	3 - 3.5	19-MAY-90	NP-237	.600	J	0 pCi/g
1516	055377	3 - 3.5	19-MAY-90	PU-238	.600	J	0 pCi/g
1516	055377	3 - 3.5	19-MAY-90	SR-90	1.220	J	.56 pCi/g
1516	055377	3 - 3.5	19-MAY-90	TC-99	.900	J	0 pCi/g
1516	055377	3 - 3.5	19-MAY-90	U-TOTAL	3.440	J	2.54 mg/kg
1516	055377	3 - 3.5	19-MAY-90	U-238	1.670	J	1.122 pCi/g
1516	055377	3 - 3.5	19-MAY-90	U-235/236	.600	J	.142 pCi/g
1516	055377	3 - 3.5	19-MAY-90	U-234	1.240	J	1.034 pCi/g
1516	055377	3 - 3.5	19-MAY-90	RU-106	1.000	J	0 pCi/g
1516	055377	3 - 3.5	19-MAY-90	PU-239/240	.600	J	0 pCi/g
1516	055379	4 - 4.5	19-MAY-90	NP-237	.600	J	0 pCi/g

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000477

TABLE F-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)							
1516	055379	4 - 4.5	19-MAY-90	U-238	1.930 J	1.122	pCi/g
1516	055379	4 - 4.5	19-MAY-90	U-235/236	.600 J	.142	pCi/g
1516	055379	4 - 4.5	19-MAY-90	U-234	1.730 J	1.034	pCi/g
1516	055379	4 - 4.5	19-MAY-90	TC-99	.900 J	0	pCi/g
1516	055379	4 - 4.5	19-MAY-90	PU-239/240	.600 J	0	pCi/g
1516	055379	4 - 4.5	19-MAY-90	PU-238	.600 J	0	pCi/g
1516	055383	6 - 6.5	19-MAY-90	CS-137	.200 J	0	pCi/g
1516	055383	6 - 6.5	19-MAY-90	U-TOTAL	9.420 J	2.54	mg/kg
1516	055383	6 - 6.5	19-MAY-90	U-238	2.840 J	1.122	pCi/g
1516	055383	6 - 6.5	19-MAY-90	U-235/236	.600 J	.142	pCi/g
1516	055383	6 - 6.5	19-MAY-90	U-234	2.290 J	1.034	pCi/g
1516	055383	6 - 6.5	19-MAY-90	TC-99	.900 J	0	pCi/g
1516	055383	6 - 6.5	19-MAY-90	RU-106	1.000 J	0	pCi/g
1516	055383	6 - 6.5	19-MAY-90	PU-239/240	.600 J	0	pCi/g
1516	055383	6 - 6.5	19-MAY-90	PU-238	.600 J	0	pCi/g
1516	055383	6 - 6.5	19-MAY-90	NP-237	.600 J	0	pCi/g
1516	055387	8 - 8.5	19-MAY-90	NP-237	.600 J	0	pCi/g
1516	055387	8 - 8.5	19-MAY-90	PU-239/240	.600 J	0	pCi/g
1516	055387	8 - 8.5	19-MAY-90	U-234	1.500 J	1.034	pCi/g
1516	055387	8 - 8.5	19-MAY-90	U-235/236	.600 J	.142	pCi/g
1516	055387	8 - 8.5	19-MAY-90	U-238	1.530 J	1.122	pCi/g
1516	055387	8 - 8.5	19-MAY-90	TC-99	.900 J	0	pCi/g
1516	055387	8 - 8.5	19-MAY-90	PU-238	.600 J	0	pCi/g
1516	055389	9 - 9.5	19-MAY-90	CS-137	.200 J	0	pCi/g
1516	055389	9 - 9.5	19-MAY-90	U-TOTAL	6.550 J	2.54	mg/kg
1516	055389	9 - 9.5	19-MAY-90	U-238	1.910 J	1.122	pCi/g
1516	055389	9 - 9.5	19-MAY-90	U-235/236	.600 J	.142	pCi/g
1516	055389	9 - 9.5	19-MAY-90	U-234	1.540 J	1.034	pCi/g
1516	055389	9 - 9.5	19-MAY-90	TC-99	.900 J	0	pCi/g
1516	055389	9 - 9.5	19-MAY-90	RU-106	1.000 J	0	pCi/g
1516	055389	9 - 9.5	19-MAY-90	PU-238	.600 J	0	pCi/g
1516	055389	9 - 9.5	19-MAY-90	PU-239/240	.600 J	0	pCi/g
1516	055389	9 - 9.5	19-MAY-90	NP-237	.600 J	0	pCi/g
1516	055391	10 - 10.5	19-MAY-90	NP-237	.600 J	0	pCi/g
1516	055391	10 - 10.5	19-MAY-90	PU-239/240	.600 J	0	pCi/g
1516	055391	10 - 10.5	19-MAY-90	PU-238	.600 J	0	pCi/g
1516	055391	10 - 10.5	19-MAY-90	U-234	1.480 J	1.034	pCi/g
1516	055391	10 - 10.5	19-MAY-90	U-238	1.530 J	1.122	pCi/g
1516	055391	10 - 10.5	19-MAY-90	U-235/236	.600 J	.142	pCi/g
1516	055391	10 - 10.5	19-MAY-90	TC-99	.900 J	0	pCi/g
1516	055393	11 - 11.5	19-MAY-90	CS-137	.200 J	0	pCi/g
1516	055393	11 - 11.5	19-MAY-90	NP-237	.600 J	0	pCi/g
1516	055393	11 - 11.5	19-MAY-90	U-TOTAL	5.520 J	2.54	mg/kg

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00004778

TABLE F-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
RADIOMUCLIDES (Continued)							
1516	055393	11 - 11.5	19-MAY-90	U-238	1.840 J	1.122	pCi/g
1516	055393	11 - 11.5	19-MAY-90	U-235/236	.600 J	.142	pCi/g
1516	055393	11 - 11.5	19-MAY-90	U-234	1.650 J	1.034	pCi/g
1516	055393	11 - 11.5	19-MAY-90	TC-99	.900 J	0	pCi/g
1516	055393	11 - 11.5	19-MAY-90	RU-106	1.000 J	0	pCi/g
1516	055393	11 - 11.5	19-MAY-90	PU-239/240	.600 J	0	pCi/g
1516	055393	11 - 11.5	19-MAY-90	PU-238	.600 J	0	pCi/g
1516	055395	12 - 12.5	19-MAY-90	NP-237	.600 J	0	pCi/g
1516	055395	12 - 12.5	19-MAY-90	PU-239/240	.600 J	0	pCi/g
1516	055395	12 - 12.5	19-MAY-90	PU-238	.600 J	0	pCi/g
1516	055395	12 - 12.5	19-MAY-90	TC-99	.900 J	0	pCi/g
1516	055395	12 - 12.5	19-MAY-90	U-238	1.960 J	1.122	pCi/g
1516	055395	12 - 12.5	19-MAY-90	U-235/236	.600 J	.142	pCi/g
1516	055395	12 - 12.5	19-MAY-90	U-234	1.840 J	1.034	pCi/g
1516	055399	14 - 14.5	19-MAY-90	CS-137	.200 J	0	pCi/g
1516	055399	14 - 14.5	19-MAY-90	PU-239/240	.600 J	0	pCi/g
1516	055399	14 - 14.5	19-MAY-90	NP-237	.600 J	0	pCi/g
1516	055399	14 - 14.5	19-MAY-90	TC-99	.900 J	0	pCi/g
1516	055399	14 - 14.5	19-MAY-90	U-TOTAL	6.660 J	2.54	mg/kg
1516	055399	14 - 14.5	19-MAY-90	U-238	2.600 J	1.122	pCi/g
1516	055399	14 - 14.5	19-MAY-90	U-235/236	.600 J	.142	pCi/g
1516	055399	14 - 14.5	19-MAY-90	U-234	2.270 J	1.034	pCi/g
1516	055399	14 - 14.5	19-MAY-90	RU-106	1.000 J	0	pCi/g
1516	055399	14 - 14.5	19-MAY-90	PU-238	.600 J	0	pCi/g
1516	055401	15 - 15.5	19-MAY-90	NP-237	.600 J	0	pCi/g
1516	055401	15 - 15.5	19-MAY-90	PU-238	.600 J	0	pCi/g
1516	055401	15 - 15.5	19-MAY-90	U-238	1.800 J	1.122	pCi/g
1516	055401	15 - 15.5	19-MAY-90	U-235/236	.600 J	.142	pCi/g
1516	055401	15 - 15.5	19-MAY-90	U-234	1.630 J	1.034	pCi/g
1516	055401	15 - 15.5	19-MAY-90	TC-99	.900 J	0	pCi/g
1516	055401	15 - 15.5	19-MAY-90	PU-239/240	.600 J	0	pCi/g
1516	055405	17 - 17.5	19-MAY-90	CS-137	.200 J	0	pCi/g
1516	055405	17 - 17.5	19-MAY-90	PU-238	.600 J	0	pCi/g
1516	055405	17 - 17.5	19-MAY-90	NP-237	.600 J	0	pCi/g
1516	055405	17 - 17.5	19-MAY-90	RU-106	1.000 J	0	pCi/g
1516	055405	17 - 17.5	19-MAY-90	U-235/236	.600 J	.142	pCi/g
1516	055405	17 - 17.5	19-MAY-90	TC-99	.900 J	0	pCi/g
1516	055405	17 - 17.5	19-MAY-90	U-TOTAL	2.640 J	2.54	mg/kg
1516	055405	17 - 17.5	19-MAY-90	PU-239/240	.600 J	0	pCi/g
1516	055407	18 - 18.5	19-MAY-90	NP-237	.600 J	0	pCi/g
1516	055407	18 - 18.5	19-MAY-90	TC-99	.900 J	0	pCi/g
1516	055407	18 - 18.5	19-MAY-90	U-235/236	.600 J	.142	pCi/g
1516	055407	18 - 18.5	19-MAY-90	U-238	2.740 J	1.122	pCi/g

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000479

TABLE F-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND	UNITS
RADIONUCLIDES (Continued)								
1516	055407	18 - 18.5	19-MAY-90	U-234	2.300	J	1.034	pCi/g
1516	055407	18 - 18.5	19-MAY-90	PU-239/240	.600	J	0	pCi/g
1516	055407	18 - 18.5	19-MAY-90	PU-238	.600	J	0	pCi/g
1516	055409	19 - 19.5	19-MAY-90	NP-237	.600	J	0	pCi/g
1516	055409	19 - 19.5	19-MAY-90	U-235/236	.600	J	.142	pCi/g
1516	055409	19 - 19.5	19-MAY-90	TC-99	.900	J	0	pCi/g
1516	055409	19 - 19.5	19-MAY-90	PU-239/240	.600	J	0	pCi/g
1516	055409	19 - 19.5	19-MAY-90	PU-238	.600	J	0	pCi/g
1517	055413	0 - .5	20-MAY-90	CS-137	.200	J	0	pCi/g
1517	055413	0 - .5	20-MAY-90	PU-239/240	.600	J	0	pCi/g
1517	055413	0 - .5	20-MAY-90	U-234	1.090	J	1.034	pCi/g
1517	055413	0 - .5	20-MAY-90	U-TOTAL	2.950	J	2.54	mg/kg
1517	055413	0 - .5	20-MAY-90	U-238	1.450	J	1.122	pCi/g
1517	055413	0 - .5	20-MAY-90	U-235/236	.600	J	.142	pCi/g
1517	055413	0 - .5	20-MAY-90	TC-99	.900	J	0	pCi/g
1517	055413	0 - .5	20-MAY-90	RU-106	1.000	J	0	pCi/g
1517	055413	0 - .5	20-MAY-90	NP-237	.600	J	0	pCi/g
1517	055413	0 - .5	20-MAY-90	PU-238	.600	J	0	pCi/g
1517	055416	1.5 - 2	20-MAY-90	NP-237	.600	J	0	pCi/g
1517	055416	1.5 - 2	20-MAY-90	PU-238	.600	J	0	pCi/g
1517	055416	1.5 - 2	20-MAY-90	U-235/236	.600	J	.142	pCi/g
1517	055416	1.5 - 2	20-MAY-90	TC-99	.900	J	0	pCi/g
1517	055416	1.5 - 2	20-MAY-90	PU-239/240	.600	J	0	pCi/g
1517	055419	3 - 3.5	20-MAY-90	NP-237	.600	J	0	pCi/g
1517	055419	3 - 3.5	20-MAY-90	PU-239/240	.600	J	0	pCi/g
1517	055419	3 - 3.5	20-MAY-90	PU-238	.600	J	0	pCi/g
1517	055419	3 - 3.5	20-MAY-90	U-235/236	.600	J	.142	pCi/g
1517	055419	3 - 3.5	20-MAY-90	TC-99	.900	J	0	pCi/g
1517	055422	4.5 - 5	20-MAY-90	NP-237	.600	J	0	pCi/g
1517	055422	4.5 - 5	20-MAY-90	PU-238	.600	J	0	pCi/g
1517	055422	4.5 - 5	20-MAY-90	U-235/236	.600	J	.142	pCi/g
1517	055422	4.5 - 5	20-MAY-90	TC-99	.900	J	0	pCi/g
1517	055422	4.5 - 5	20-MAY-90	PU-239/240	.600	J	0	pCi/g
1517	055425	6 - 6.5	20-MAY-90	CS-137	.200	J	0	pCi/g
1517	055425	6 - 6.5	20-MAY-90	U-235/236	.600	J	.142	pCi/g
1517	055425	6 - 6.5	20-MAY-90	TC-99	.900	J	0	pCi/g
1517	055425	6 - 6.5	20-MAY-90	RU-106	1.000	J	0	pCi/g
1517	055425	6 - 6.5	20-MAY-90	PU-239/240	.600	J	0	pCi/g
1517	055425	6 - 6.5	20-MAY-90	PU-238	.600	J	0	pCi/g
1517	055425	6 - 6.5	20-MAY-90	NP-237	.600	J	0	pCi/g
1517	055427	7 - 7.5	20-MAY-90	CS-137	.200	J	0	pCi/g
1517	055427	7 - 7.5	20-MAY-90	NP-237	.600	J	0	pCi/g
1517	055427	7 - 7.5	20-MAY-90	PU-239/240	.600	J	0	pCi/g

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FEMP-OU02-6 FINAL
January 21, 1995

TABLE F-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)							
1517	055427	7 - 7.5	20-MAY-90	U-235/236	.600 J	.142	pCi/g
1517	055427	7 - 7.5	20-MAY-90	TC-99	.900 J	0	pCi/g
1517	055427	7 - 7.5	20-MAY-90	RU-106	1.000 J	0	pCi/g
1517	055427	7 - 7.5	20-MAY-90	PU-238	.600 J	0	pCi/g
1517	055429	8 - 8.5	20-MAY-90	CS-137	.200 J	0	pCi/g
1517	055429	8 - 8.5	20-MAY-90	NP-237	.600 J	0	pCi/g
1517	055429	8 - 8.5	20-MAY-90	U-235/236	.600 J	.142	pCi/g
1517	055429	8 - 8.5	20-MAY-90	U-234	1.430 J	1.034	pCi/g
1517	055429	8 - 8.5	20-MAY-90	TC-99	.900 J	0	pCi/g
1517	055429	8 - 8.5	20-MAY-90	RU-106	1.000 J	0	pCi/g
1517	055429	8 - 8.5	20-MAY-90	PU-239/240	.600 J	0	pCi/g
1517	055429	8 - 8.5	20-MAY-90	PU-238	.600 J	0	pCi/g
1517	055431	9 - 9.5	20-MAY-90	CS-137	.200 J	0	pCi/g
1517	055431	9 - 9.5	20-MAY-90	U-235/236	.600 J	.142	pCi/g
1517	055431	9 - 9.5	20-MAY-90	TC-99	.900 J	0	pCi/g
1517	055431	9 - 9.5	20-MAY-90	RU-106	1.000 J	0	pCi/g
1517	055431	9 - 9.5	20-MAY-90	PU-239/240	.600 J	0	pCi/g
1517	055431	9 - 9.5	20-MAY-90	PU-238	.600 J	0	pCi/g
1517	055431	9 - 9.5	20-MAY-90	NP-237	.600 J	0	pCi/g
1517	055433	10 - 10.5	20-MAY-90	CS-137	.200 J	0	pCi/g
1517	055433	10 - 10.5	20-MAY-90	NP-237	.600 J	0	pCi/g
1517	055433	10 - 10.5	20-MAY-90	SR-90	.737 J	.56	pCi/g
1517	055433	10 - 10.5	20-MAY-90	TC-99	.900 J	0	pCi/g
1517	055433	10 - 10.5	20-MAY-90	U-235/236	.600 J	.142	pCi/g
1517	055433	10 - 10.5	20-MAY-90	RU-106	1.000 J	0	pCi/g
1517	055433	10 - 10.5	20-MAY-90	PU-239/240	.600 J	0	pCi/g
1517	055433	10 - 10.5	20-MAY-90	PU-238	.600 J	0	pCi/g
1517	055437	12 - 12.5	20-MAY-90	NP-237	.600 J	0	pCi/g
1517	055437	12 - 12.5	20-MAY-90	U-235/236	.600 J	.142	pCi/g
1517	055437	12 - 12.5	20-MAY-90	TH-230	2.020 -	1.897	pCi/g
1517	055437	12 - 12.5	20-MAY-90	PU-239/240	.600 J	0	pCi/g
1517	055437	12 - 12.5	20-MAY-90	TC-99	.900 J	0	pCi/g
1517	055437	12 - 12.5	20-MAY-90	PU-238	.600 J	0	pCi/g
1517	055440	13.5 - 14	20-MAY-90	CS-137	.200 J	0	pCi/g
1517	055440	13.5 - 14	20-MAY-90	U-235/236	.600 J	.142	pCi/g
1517	055440	13.5 - 14	20-MAY-90	TC-99	.900 J	0	pCi/g
1517	055440	13.5 - 14	20-MAY-90	RU-106	1.000 J	0	pCi/g
1517	055440	13.5 - 14	20-MAY-90	PU-239/240	.600 J	0	pCi/g
1517	055440	13.5 - 14	20-MAY-90	PU-238	.600 J	0	pCi/g
1517	055440	13.5 - 14	20-MAY-90	NP-237	.600 J	0	pCi/g
1517	055443	15 - 15.5	20-MAY-90	CS-137	.200 J	0	pCi/g
1517	055443	15 - 15.5	20-MAY-90	NP-237	.600 J	0	pCi/g
1517	055443	15 - 15.5	20-MAY-90	TC-99	.900 J	0	pCi/g

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TABLE F-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)							
1517	055443	15 - 15.5	20-MAY-90	RU-106	1.000 J	0	pCi/g
1517	055443	15 - 15.5	20-MAY-90	U-235/236	.600 J	.142	pCi/g
1517	055443	15 - 15.5	20-MAY-90	PU-239/240	.600 J	0	pCi/g
1517	055443	15 - 15.5	20-MAY-90	PU-238	.600 J	0	pCi/g
1517	055446	16.5 - 17	20-MAY-90	NP-237	.600 J	0	pCi/g
1517	055446	16.5 - 17	20-MAY-90	TH-228	1.930 -	1.341	pCi/g
1517	055446	16.5 - 17	20-MAY-90	U-235/236	.600 J	.142	pCi/g
1517	055446	16.5 - 17	20-MAY-90	TC-99	.900 J	0	pCi/g
1517	055446	16.5 - 17	20-MAY-90	PU-239/240	.600 J	0	pCi/g
1517	055446	16.5 - 17	20-MAY-90	PU-238	.600 J	0	pCi/g
1517	055449	18 - 18.5	20-MAY-90	CS-137	.200 J	0	pCi/g
1517	055449	18 - 18.5	20-MAY-90	U-235/236	.600 J	.142	pCi/g
1517	055449	18 - 18.5	20-MAY-90	TC-99	.900 J	0	pCi/g
1517	055449	18 - 18.5	20-MAY-90	RU-106	1.000 J	0	pCi/g
1517	055449	18 - 18.5	20-MAY-90	PU-239/240	.600 J	0	pCi/g
1517	055449	18 - 18.5	20-MAY-90	PU-238	.600 J	0	pCi/g
1517	055449	18 - 18.5	20-MAY-90	NP-237	.600 J	0	pCi/g
1517	055451	19 - 19.5	20-MAY-90	NP-237	.600 J	0	pCi/g
1517	055451	19 - 19.5	20-MAY-90	PU-238	.600 J	0	pCi/g
1517	055451	19 - 19.5	20-MAY-90	TC-99	.900 J	0	pCi/g
1517	055451	19 - 19.5	20-MAY-90	U-235/236	.600 J	.142	pCi/g
1517	055451	19 - 19.5	20-MAY-90	PU-239/240	.600 J	0	pCi/g
1518	055454	0 - .5	22-MAY-90	NP-237	.600 J	0	pCi/g
1518	055454	0 - .5	22-MAY-90	PU-238	.600 J	0	pCi/g
1518	055454	0 - .5	22-MAY-90	U-234	1.200 J	1.034	pCi/g
1518	055454	0 - .5	22-MAY-90	U-238	1.240 J	1.122	pCi/g
1518	055454	0 - .5	22-MAY-90	U-235/236	.600 J	.142	pCi/g
1518	055454	0 - .5	22-MAY-90	TC-99	.900 J	0	pCi/g
1518	055454	0 - .5	22-MAY-90	PU-239/240	.600 J	0	pCi/g
1518	055456	1 - 1.5	22-MAY-90	CS-137	.200 J	0	pCi/g
1518	055456	1 - 1.5	22-MAY-90	NP-237	.600 J	0	pCi/g
1518	055456	1 - 1.5	22-MAY-90	U-235/236	.600 J	.142	pCi/g
1518	055456	1 - 1.5	22-MAY-90	TC-99	.900 J	0	pCi/g
1518	055456	1 - 1.5	22-MAY-90	PU-239/240	.600 J	0	pCi/g
1518	055456	1 - 1.5	22-MAY-90	PU-238	.600 J	0	pCi/g
1518	055456	1 - 1.5	22-MAY-90	NP-237	.600 J	0	pCi/g
1518	055458	2 - 2.5	22-MAY-90	NP-237	.600 J	0	pCi/g
1518	055458	2 - 2.5	22-MAY-90	PU-238	.600 J	0	pCi/g
1518	055458	2 - 2.5	22-MAY-90	PU-239/240	.600 J	0	pCi/g
1518	055458	2 - 2.5	22-MAY-90	U-235/236	.600 J	.142	pCi/g
1518	055458	2 - 2.5	22-MAY-90	TC-99	.900 J	0	pCi/g
1518	055460	3 - 3.5	22-MAY-90	NP-237	.600 J	0	pCi/g
1518	055460	3 - 3.5	22-MAY-90	PU-238	.600 J	0	pCi/g
1518	055460	3 - 3.5	22-MAY-90	TC-99	.900 J	0	pCi/g

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TABLE F-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND	UNITS
RADIONUCLIDES (Continued)								
1518	055460	3 - 3.5	22-MAY-90	PU-239/240	.600	J	0	pCi/g
1518	055462	4 - 4.5	22-MAY-90	CS-137	.200	J	0	pCi/g
1518	055462	4 - 4.5	22-MAY-90	U-235/236	.600	J	.142	pCi/g
1518	055462	4 - 4.5	22-MAY-90	TC-99	.900	J	0	pCi/g
1518	055462	4 - 4.5	22-MAY-90	RU-106	1.000	J	0	pCi/g
1518	055462	4 - 4.5	22-MAY-90	PU-239/240	.600	J	0	pCi/g
1518	055462	4 - 4.5	22-MAY-90	PU-238	.600	J	0	pCi/g
1518	055462	4 - 4.5	22-MAY-90	NP-237	.600	J	0	pCi/g
1518	055464	5 - 5.5	22-MAY-90	NP-237	.600	J	0	pCi/g
1518	055464	5 - 5.5	22-MAY-90	PU-238	.600	J	0	pCi/g
1518	055464	5 - 5.5	22-MAY-90	TC-99	.900	J	0	pCi/g
1518	055464	5 - 5.5	22-MAY-90	U-235/236	.600	J	.142	pCi/g
1518	055464	5 - 5.5	22-MAY-90	PU-239/240	.600	J	0	pCi/g
1518	055466	6 - 6.5	22-MAY-90	NP-237	.600	J	0	pCi/g
1518	055466	6 - 6.5	22-MAY-90	PU-238	.600	J	0	pCi/g
1518	055466	6 - 6.5	22-MAY-90	U-235/236	.600	J	.142	pCi/g
1518	055466	6 - 6.5	22-MAY-90	TC-99	.900	J	0	pCi/g
1518	055466	6 - 6.5	22-MAY-90	PU-239/240	.600	J	0	pCi/g
1518	055468	7 - 7.5	22-MAY-90	NP-237	.600	J	0	pCi/g
1518	055468	7 - 7.5	22-MAY-90	PU-238	.600	J	0	pCi/g
1518	055468	7 - 7.5	22-MAY-90	U-235/236	.600	J	.142	pCi/g
1518	055468	7 - 7.5	22-MAY-90	TC-99	.900	J	0	pCi/g
1518	055468	7 - 7.5	22-MAY-90	PU-239/240	.600	J	0	pCi/g
1518	055470	8 - 8.5	22-MAY-90	NP-237	.600	J	0	pCi/g
1518	055470	8 - 8.5	22-MAY-90	PU-239/240	.600	J	0	pCi/g
1518	055470	8 - 8.5	22-MAY-90	U-235/236	.600	J	.142	pCi/g
1518	055470	8 - 8.5	22-MAY-90	TC-99	.900	J	0	pCi/g
1518	055470	8 - 8.5	22-MAY-90	PU-239/240	.600	J	0	pCi/g
1518	055472	9 - 9.5	22-MAY-90	NP-237	.600	J	0	pCi/g
1518	055472	9 - 9.5	22-MAY-90	PU-238	.200	J	0	pCi/g
1518	055472	9 - 9.5	22-MAY-90	U-239/240	.600	J	0	pCi/g
1518	055472	9 - 9.5	22-MAY-90	U-235/236	.600	J	.142	pCi/g
1518	055472	9 - 9.5	22-MAY-90	TH-228	1.530	J	1.341	pCi/g
1518	055472	9 - 9.5	22-MAY-90	TC-99	.900	J	0	pCi/g
1518	055472	9 - 9.5	22-MAY-90	PU-238	.600	J	0	pCi/g
1518	055472	9 - 9.5	22-MAY-90	RU-106	1.000	J	0	pCi/g
1518	055472	9 - 9.5	22-MAY-90	NP-237	.600	J	0	pCi/g
1518	055476	11 - 11.5	22-MAY-90	TH-228	5.920	-	1.341	pCi/g
1518	055476	11 - 11.5	22-MAY-90	TH-230	3.010	J	1.897	pCi/g
1518	055476	11 - 11.5	22-MAY-90	TH-232	5.590	-	1.269	pCi/g
1518	055476	11 - 11.5	22-MAY-90	TH-TOTAL	50.500	-	9.47	mg/kg
2046	008950	30 - 31.5	14-DEC-88	SR-90	.700	-	.56	pCi/g
2046	008956	61 - 62.5	15-DEC-88	U-TOTAL	16.000	-	2.54	mg/kg
2065	007184	13.5 - 15	29-SEP-87	U-234	1.200	J	1.034	pCi/g

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TABLE F-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)							
2065	007184	13.5 - 15	29-SEP-87	U-238	1.300 J	1.122	pCi/g
2385	032622	4.5 - 6	20-APR-90	SR-90	1.340 -	.56	pCi/g
2385	032639	45 - 46.5	21-APR-90	U-TOTAL	4.630 J	2.54	mg/kg
3046	032709	100 - 101.5	30-MAY-90	U-234	4.330 J	1.034	pCi/g
3046	032709	100 - 101.5	30-MAY-90	U-238	4.230 J	1.122	pCi/g
3046	032709	100 - 101.5	30-MAY-90	U-TOTAL	12.700 J	2.54	mg/kg
SPA-0	039170	-	29-JUL-92	TH-TOTAL	9.640 J	9.47	mg/kg
SPA-0	039170	-	29-JUL-92	U-TOTAL	18.100 -	2.54	mg/kg
SPA-0	039170	-	29-JUL-92	U-238	2.460 -	1.122	pCi/g
SPA-0	039170	-	29-JUL-92	U-234	2.420 -	1.034	pCi/g
SPA-10	039171	- 10	29-JUL-92	U-TOTAL	3.030 -	2.54	mg/kg
VOLATILE ORGANICS							
1046	008024	15 - 16.5	08-FEB-88	Acetone	8.000 J	0	ug/kg
1046	008024	15 - 16.5	08-FEB-88	Chloroform	3.000 J	0	ug/kg
1046	008024	15 - 16.5	08-FEB-88	Methylene chloride	2.000 -	0	ug/kg
1456	055906	3.75 - 3.75	05-NOV-89	Chloroform	3.000 J	0	ug/kg
1462	055932	4 - 4	07-NOV-89	Chloroform	7.000 -	0	ug/kg
1462	055932	4 - 4	07-NOV-89	Methylene chloride	6.000 -	0	ug/kg
1468	055959	2.5 - 2.5	14-NOV-89	Methylene chloride	2.000 J	0	ug/kg
1471	055972	4 - 4	16-NOV-89	2-Butanone	42.000 -	0	ug/kg
1471	055972	4 - 4	16-NOV-89	Methylene chloride	57.000 -	0	ug/kg
1792	067350	12 - 13.5	21-AUG-91	Xylenes, Total	2.000 J	0	ug/kg
1792	067353	16.5 - 18	22-AUG-91	4-Methyl-2-pentanone	1.000 J	0	ug/kg
1792	067353	16.5 - 18	22-AUG-91	Acetone	36.000 -	0	ug/kg
1792	067353	16.5 - 18	22-AUG-91	Xylenes, Total	1.000 J	0	ug/kg
1792	067356	21.5 - 23	22-AUG-91	4-Methyl-2-pentanone	3.000 J	0	ug/kg
1792	067356	21.5 - 23	22-AUG-91	Acetone	56.000 J	0	ug/kg
1794	067324	0 - 1	13-AUG-91	Acetone	5.000 J	0	ug/kg
1794	067328	2 - 2.5	13-AUG-91	Acetone	10.000 J	0	ug/kg
1795	067367	0 - 1	23-AUG-91	Acetone	5.000 J	0	ug/kg
1795	067370	3 - 4	23-AUG-91	Acetone	5.000 J	0	ug/kg
SEMITOLATILE ORGANICS							
1456	055906	3.75 - 3.75	05-NOV-89	Fluoranthene	39.000 J	0	ug/kg
1456	055906	3.75 - 3.75	05-NOV-89	Pyrene	43.000 J	0	ug/kg
1459	055919	5 - 5	06-NOV-89	Benzo(a)anthracene	170.000 J	0	ug/kg
1459	055919	5 - 5	06-NOV-89	Benzo(b)fluoranthene	290.000 J	0	ug/kg
1459	055919	5 - 5	06-NOV-89	Fluoranthene	300.000 J	0	ug/kg
1459	055919	5 - 5	06-NOV-89	Phenanthrene	110.000 J	0	ug/kg
1459	055919	5 - 5	06-NOV-89	Pyrene	270.000 J	0	ug/kg
1459	055919	5 - 5	06-NOV-89	Chrysene	170.000 J	0	ug/kg
1459	055919	5 - 5	06-NOV-89	Benzo(a)pyrene	230.000 J	0	ug/kg

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000484

TABLE F-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND	UNITS
SEMIVOLATILE ORGANICS (Continued)								
1462	055932	4 - 4	07-NOV-89	Benzo(a)anthracene	130.000	J	0	ug/kg
1462	055932	4 - 4	07-NOV-89	Pyrene	400.000	-	0	ug/kg
1462	055932	4 - 4	07-NOV-89	Phenanthrene	240.000	J	0	ug/kg
1462	055932	4 - 4	07-NOV-89	Fluoranthene	300.000	J	0	ug/kg
1462	055932	4 - 4	07-NOV-89	Chrysene	150.000	J	0	ug/kg
1462	055932	4 - 4	07-NOV-89	Benzo(b)fluoranthene	140.000	J	0	ug/kg
1465	055945	3.5 - 3.5	08-NOV-89	Pyrene	44.000	J	0	ug/kg
1468	055959	2.5 - 2.5	14-NOV-89	bis(2-Ethylhexyl) phthalate	40.000	J	0	ug/kg
1792	067346	6 - 7.5	21-AUG-91	Benzoic acid	47.000	J	0	ug/kg
1792	067346	6 - 7.5	21-AUG-91	Fluoranthene	42.000	J	0	ug/kg
1792	067346	6 - 7.5	21-AUG-91	Pyrene	48.000	J	0	ug/kg
1792	067350	12 - 13.5	21-AUG-91	2-Methylnaphthalene	56.000	J	0	ug/kg
1792	067350	12 - 13.5	21-AUG-91	Di-n-octyl phthalate	210.000	J	0	ug/kg
1792	067350	12 - 13.5	21-AUG-91	Pyrene	51.000	J	0	ug/kg
1792	067353	16.5 - 18	22-AUG-91	Benzoic acid	57.000	J	0	ug/kg
1792	067353	16.5 - 18	22-AUG-91	Pyrene	57.000	J	0	ug/kg
1792	067356	21.5 - 23	22-AUG-91	Benzoic acid	110.000	J	0	ug/kg
1792	067356	21.5 - 23	22-AUG-91	Diethyl phthalate	84.000	J	0	ug/kg
1793	067333	3 - 4.5	15-AUG-91	Benzoic acid	150.000	J	0	ug/kg
1794	067324	0 - 1	13-AUG-91	Benzo(a)anthracene	100.000	J	0	ug/kg
1794	067324	0 - 1	13-AUG-91	Benzo(g,h,i)perylene	45.000	J	0	ug/kg
1794	067324	0 - 1	13-AUG-91	Benzo(a)pyrene	46.000	J	0	ug/kg
1794	067324	0 - 1	13-AUG-91	Benzo(b)fluoranthene	140.000	J	0	ug/kg
1794	067324	0 - 1	13-AUG-91	Pyrene	170.000	J	0	ug/kg
1794	067324	0 - 1	13-AUG-91	Phenanthrene	96.000	J	0	ug/kg
1794	067324	0 - 1	13-AUG-91	Fluoranthene	170.000	J	0	ug/kg
1794	067324	0 - 1	13-AUG-91	Chrysene	82.000	J	0	ug/kg
1794	067324	0 - 1	13-AUG-91	Benzoic acid	66.000	J	0	ug/kg
1794	067328	2 - 2.5	13-AUG-91	Benzo(a)anthracene	78.000	J	0	ug/kg
1794	067328	2 - 2.5	13-AUG-91	Benzo(b)fluoranthene	88.000	J	0	ug/kg
1794	067328	2 - 2.5	13-AUG-91	Fluoranthene	150.000	J	0	ug/kg
1794	067328	2 - 2.5	13-AUG-91	Pyrene	140.000	J	0	ug/kg
1794	067328	2 - 2.5	13-AUG-91	Phenanthrene	93.000	J	0	ug/kg
1794	067328	2 - 2.5	13-AUG-91	Chrysene	70.000	J	0	ug/kg
1795	067367	0 - 1	23-AUG-91	Anthracene	58.000	J	0	ug/kg
1795	067367	0 - 1	23-AUG-91	Pyrene	500.000	-	0	ug/kg
1795	067367	0 - 1	23-AUG-91	Phenanthrene	370.000	J	0	ug/kg
1795	067367	0 - 1	23-AUG-91	Indeno(1,2,3-cd)pyrene	84.000	J	0	ug/kg
1795	067367	0 - 1	23-AUG-91	Benzo(a)anthracene	270.000	J	0	ug/kg
1795	067367	0 - 1	23-AUG-91	Benzo(g,h,i)perylene	100.000	J	0	ug/kg
1795	067367	0 - 1	23-AUG-91	Chrysene	300.000	J	0	ug/kg
1795	067367	0 - 1	23-AUG-91	Fluoranthene	610.000	-	0	ug/kg
1795	067367	0 - 1	23-AUG-91	Benzo(b)fluoranthene	360.000	J	0	ug/kg

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TABLE F-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
SEMITOLATILE ORGANICS (Continued)							
1795	067367	0 - 1	23-AUG-91	Benzo(a)pyrene	120.000	J	0 ug/kg
SPA-5	039180	- 5	29-JUL-92	Di-n-butyl phthalate	80.000	J	0 ug/kg
PESTICIDES/PCBs							
1456	055906	3.75 - 3.75	05-NOV-89	Aroclor-1254	130.000	J	0 ug/kg
1459	055919	5 - 5	06-NOV-89	Aroclor-1254	1100.000	J	0 ug/kg
1462	055932	4 - 4	07-NOV-89	Aroclor-1254	690.000	J	0 ug/kg
1468	055959	2.5 - 2.5	14-NOV-89	Aroclor-1254	710.000	J	0 ug/kg
1792	067346	6 - 7.5	21-AUG-91	Aroclor-1254	32.000	J	0 ug/kg
1792	067350	12 - 13.5	21-AUG-91	Aroclor-1254	100.000	J	0 ug/kg
1793	067333	3 - 4.5	15-AUG-91	Aroclor-1254	740.000	-	0 ug/kg
DIOXIN/FURANS							
1792	067343	1.5 - 3	21-AUG-91	Octachlorodibenzo-p-dioxin	.180	-	0 ug/kg
1792	067346	6 - 7.5	21-AUG-91	Octachlorodibenzo-p-dioxin	.350	-	0 ug/kg
1792	067346	6 - 7.5	21-AUG-91	Tetrachlorodibenzofuran	.018	-	0 ug/kg
1792	067350	12 - 13.5	21-AUG-91	Octachlorodibenzo-p-dioxin	.750	-	0 ug/kg
1792	067353	16.5 - 18	22-AUG-91	Octachlorodibenzo-p-dioxin	1.100	-	0 ug/kg
1792	067356	21.5 - 23	22-AUG-91	Octachlorodibenzo-p-dioxin	.120	J	0 ug/kg
1793	067333	3 - 4.5	15-AUG-91	Octachlorodibenzo-p-dioxin	.650	-	0 ug/kg
1794	067324	0 - 1	13-AUG-91	Octachlorodibenzo-p-dioxin	.600	-	0 ug/kg
1794	067328	2 - 2.5	13-AUG-91	Octachlorodibenzo-p-dioxin	1.500	-	0 ug/kg
1795	067367	0 - 1	23-AUG-91	Octachlorodibenzo-p-dioxin	2.900	J	0 ug/kg
1795	067370	3 - 4	23-AUG-91	Octachlorodibenzo-p-dioxin	3.600	J	0 ug/kg

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TABLE F-2C
SOUTH FIELD
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND IN SUBSURFACE SOIL
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	Background Concentration	UNITS
METALS								
11186	112507	4.5 - 6.5	12-APR-93	Beryllium	.830	-	.620	mg/kg
11186	112507	4.5 - 6.5	12-APR-93	Copper	27.400	-	20.230	mg/kg
11186	112507	4.5 - 6.5	12-APR-93	Iron	31800.000	-	31188.164	mg/kg
11186	112507	4.5 - 6.5	12-APR-93	Silver	9.600	-	.000	mg/kg
11186	112507	4.5 - 6.5	12-APR-93	Zinc	82.300	-	73.158	mg/kg
11186	112507	4.5 - 6.5	12-APR-93	Vanadium	39.100	-	38.088	mg/kg
11186	112507	4.5 - 6.5	12-APR-93	Molybdenum	8.400	-	.270	mg/kg
11186	112514	4.5 - 6.5	12-APR-93	Molybdenum	6.900	-	.270	mg/kg
11186	112514	9.5 - 11	12-APR-93	Potassium	2060.000	-	2007.519	mg/kg
11186	112514	9.5 - 11	12-APR-93	Silver	6.900	-	.000	mg/kg
11187	112520	4 - 6	13-APR-93	Silver	3.700	-	.000	mg/kg
11187	112520	4 - 6	13-APR-93	Thallium	.580	J	.490	mg/kg
11187	112526	9 - 10.5	13-APR-93	Beryllium	.650	-	.620	mg/kg
11187	112526	9 - 10.5	13-APR-93	Molybdenum	6.700	-	.270	mg/kg
11187	112526	9 - 10.5	13-APR-93	Silver	7.100	-	.000	mg/kg
11188	110547	4.5 - 6	02-APR-93	Molybdenum	6.200	J	.270	mg/kg
11188	110547	4.5 - 6	02-APR-93	Silver	6.400	-	.000	mg/kg
11188	110556	10 - 11	02-APR-93	Calcium	213000.000	J	150000.000	mg/kg
1964	112648	5 - 6.5	17-APR-93	Aluminum	20500.000	-	16277.291	mg/kg
1964	112648	5 - 6.5	17-APR-93	Barium	203.000	-	121.064	mg/kg
1964	112648	5 - 6.5	17-APR-93	Beryllium	1.000	-	.620	mg/kg
1964	112648	5 - 6.5	17-APR-93	Chromium	22.300	-	20.953	mg/kg
1964	112648	5 - 6.5	17-APR-93	Copper	30.800	-	20.230	mg/kg
1964	112648	5 - 6.5	17-APR-93	Zinc	73.700	-	73.158	mg/kg
1964	112648	5 - 6.5	17-APR-93	Vanadium	47.900	-	38.088	mg/kg
1964	112648	5 - 6.5	17-APR-93	Silver	10.600	-	.000	mg/kg
1964	112648	5 - 6.5	17-APR-93	Nickel	41.700	-	34.747	mg/kg
1964	112648	5 - 6.5	17-APR-93	Molybdenum	10.000	-	.270	mg/kg
1964	112648	5 - 6.5	17-APR-93	Manganese	1140.000	-	1045.407	mg/kg
1964	112648	5 - 6.5	17-APR-93	Lead	17.100	-	15.780	mg/kg
1964	112648	5 - 6.5	17-APR-93	Iron	38400.000	-	31188.164	mg/kg
1965	112737	4 - 6	20-APR-93	Molybdenum	5.200	-	.270	mg/kg
1965	112737	4 - 6	20-APR-93	Silver	4.500	-	.000	mg/kg
1966	110405	.5 - 1	24-MAR-93	Lead	17.600	-	15.780	mg/kg
1966	110405	.5 - 1	24-MAR-93	Molybdenum	6.300	J	.270	mg/kg

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TABLE F-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	Background Concentration	UNITS
METALS (Continued)								
1966	110405	.5 - 1	24-MAR-93	Silver	5.300	-	.000	mg/kg
1966	112859	4.5 - 6.5	21-APR-93	Aluminum	17100.000	-	16277.291	mg/kg
1966	112859	4.5 - 6.5	21-APR-93	Beryllium	.740	-	.620	mg/kg
1966	112859	4.5 - 6.5	21-APR-93	Barium	153.000	-	121.064	mg/kg
1966	112859	4.5 - 6.5	21-APR-93	Copper	23.900	-	20.230	mg/kg
1966	112859	4.5 - 6.5	21-APR-93	Iron	33300.000	-	31188.164	mg/kg
1966	112859	4.5 - 6.5	21-APR-93	Vanadium	44.700	-	38.088	mg/kg
1966	112859	4.5 - 6.5	21-APR-93	Silver	9.500	-	.000	mg/kg
1966	112859	4.5 - 6.5	21-APR-93	Molybdenum	8.900	-	.270	mg/kg
1966	112859	4.5 - 6.5	21-APR-93	Lead	16.000	-	15.780	mg/kg
1966	112883	24 - 25	22-APR-93	Beryllium	.730	-	.620	mg/kg
1966	112883	24 - 25	22-APR-93	Zinc	88.600	-	73.158	mg/kg
1966	112883	24 - 25	22-APR-93	Silver	9.700	-	.000	mg/kg
1966	112883	24 - 25	22-APR-93	Nickel	36.700	-	34.747	mg/kg
1966	112883	24 - 25	22-APR-93	Molybdenum	8.600	-	.270	mg/kg
1966	112883	24 - 25	22-APR-93	Copper	24.400	-	20.230	mg/kg
1966	112883	24 - 25	22-APR-93	Iron	32900.000	-	31188.164	mg/kg
1967	110362	.5 - 1	22-MAR-93	Molybdenum	5.300	-	.270	mg/kg
1967	110362	.5 - 1	22-MAR-93	Silver	5.200	-	.000	mg/kg
1967	112696	4.5 - 7.5	18-APR-93	Molybdenum	6.000	-	.270	mg/kg
1967	112696	4.5 - 7.5	18-APR-93	Silver	5.000	-	.000	mg/kg
1967	112731	29.5 - 31	19-APR-93	Molybdenum	5.400	-	.270	mg/kg
1967	112731	29.5 - 31	19-APR-93	Silver	5.600	-	.000	mg/kg
1968	110396	.5 - 1	22-MAR-93	Molybdenum	4.600	-	.270	mg/kg
1968	110396	.5 - 1	22-MAR-93	Silver	4.000	-	.000	mg/kg
1968	112835	4.5 - 6.5	20-APR-93	Potassium	2480.000	-	2007.519	mg/kg
1968	112835	4.5 - 6.5	20-APR-93	Silver	4.400	-	.000	mg/kg
1968	112849	15.5 - 16.5	20-APR-93	Calcium	187000.000	-	150000.000	mg/kg
1968	112849	15.5 - 16.5	20-APR-93	Copper	23.500	-	20.230	mg/kg
1968	112849	15.5 - 16.5	20-APR-93	Sodium	272.000	-	227.947	mg/kg
1968	112849	15.5 - 16.5	20-APR-93	Zinc	82.600	-	73.158	mg/kg
1968	112849	15.5 - 16.5	20-APR-93	Silver	7.900	-	.000	mg/kg
1968	112849	15.5 - 16.5	20-APR-93	Magnesium	50800.000	-	43052.339	mg/kg
1968	112849	15.5 - 16.5	20-APR-93	Iron	32700.000	-	31188.164	mg/kg
1969	110339	.5 - 1	22-MAR-93	Aluminum	22800.000	-	16277.291	mg/kg
1969	110339	.5 - 1	22-MAR-93	Sodium	259.000	-	227.947	mg/kg
1969	110339	.5 - 1	22-MAR-93	Silver	5.300	-	.000	mg/kg
1969	110339	.5 - 1	22-MAR-93	Molybdenum	5.200	-	.270	mg/kg
1969	110339	.5 - 1	22-MAR-93	Lead	16.800	J	15.780	mg/kg
1969	110339	.5 - 1	22-MAR-93	Beryllium	2.200	-	.620	mg/kg
1969	110339	.5 - 1	22-MAR-93	Barium	124.000	-	121.064	mg/kg
1969	112559	4.5 - 6	15-APR-93	Silver	3.700	-	.000	mg/kg
1969	112563	9 - 10.5	15-APR-93	Beryllium	.660	-	.620	mg/kg

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TABLE F-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	Background Concentration	UNITS
METALS (Continued)								
1969	112563	9 ~ 10.5	15-APR-93	Silver	5.900	-	.000	mg/kg
1969	112563	9 ~ 10.5	15-APR-93	Molybdenum	6.200	-	.270	mg/kg
1970	112690	4 ~ 5.5	18-APR-93	Antimony	1.200	J	.000	mg/kg
1970	112690	4 ~ 5.5	18-APR-93	Copper	34.200	-	20.230	mg/kg
1970	112690	4 ~ 5.5	18-APR-93	Zinc	81.700	-	73.158	mg/kg
1970	112690	4 ~ 5.5	18-APR-93	Silver	7.000	-	.000	mg/kg
1970	112690	4 ~ 5.5	18-APR-93	Molybdenum	9.800	-	.270	mg/kg
1970	112690	4 ~ 5.5	18-APR-93	Lead	40.000	-	15.780	mg/kg
1970	112893	9 ~ 10.5	18-APR-93	Beryllium	.650	-	.620	mg/kg
1970	112893	9 ~ 10.5	18-APR-93	Silver	6.000	-	.000	mg/kg
1970	112893	9 ~ 10.5	18-APR-93	Molybdenum	5.200	-	.270	mg/kg
1971	110327	.5 ~ 1	22-MAR-93	Beryllium	.780	-	.620	mg/kg
1971	110327	.5 ~ 1	22-MAR-93	Molybdenum	6.100	-	.270	mg/kg
1971	110327	.5 ~ 1	22-MAR-93	Silver	6.300	-	.000	mg/kg
1971	112536	4.5 ~ 6.5	15-APR-93	Beryllium	.920	-	.620	mg/kg
1971	112536	4.5 ~ 6.5	15-APR-93	Molybdenum	8.900	-	.270	mg/kg
1971	112536	4.5 ~ 6.5	15-APR-93	Copper	25.000	-	20.230	mg/kg
1971	112593	9.5 ~ 11	15-APR-93	Cyanide	.780	-	.170	mg/kg
1971	112536	4.5 ~ 6.5	15-APR-93	Potassium	2480.000	-	2007.519	mg/kg
1971	112536	4.5 ~ 6.5	15-APR-93	Silver	9.200	-	.000	mg/kg
1971	112593	9.5 ~ 11	15-APR-93	Beryllium	.650	-	.620	mg/kg
1971	112593	9.5 ~ 11	15-APR-93	Molybdenum	7.500	-	.270	mg/kg
1971	112593	9.5 ~ 11	15-APR-93	Silver	6.400	-	.000	mg/kg
1971	112593	9.5 ~ 11	15-APR-93	Potassium	2590.000	-	2007.519	mg/kg
1972	110382	.5 ~ 1	19-MAR-93	Arsenic	14.100	-	9.704	mg/kg
1972	110382	.5 ~ 1	19-MAR-93	Silver	3.400	J	.000	mg/kg
1972	110382	.5 ~ 1	19-MAR-93	Lead	44.100	-	15.780	mg/kg
1972	110584	2.5 ~ 4	08-APR-93	Aluminum	20000.000	-	16277.291	mg/kg
1972	110584	2.5 ~ 4	08-APR-93	Arsenic	10.200	J	9.704	mg/kg
1972	110584	2.5 ~ 4	08-APR-93	Vanadium	47.500	-	38.088	mg/kg
1972	110584	2.5 ~ 4	08-APR-93	Silver	9.000	-	.000	mg/kg
1972	110584	2.5 ~ 4	08-APR-93	Molybdenum	8.600	-	.270	mg/kg
1972	110584	2.5 ~ 4	08-APR-93	Copper	23.900	-	20.230	mg/kg
1972	112494	7.5 ~ 9	08-APR-93	Sodium	294.000	-	227.947	mg/kg
1973	110413	.5 ~ 1	24-MAR-93	Arsenic	9.800	-	9.704	mg/kg
1973	110413	.5 ~ 1	24-MAR-93	Cyanide	.330	-	.170	mg/kg
1973	110413	.5 ~ 1	24-MAR-93	Silver	2.800	-	.000	mg/kg
1973	110413	.5 ~ 1	24-MAR-93	Beryllium	.820	-	.620	mg/kg
1974	110415	.5 ~ 1	24-MAR-93	Molybdenum	5.000	J	.270	mg/kg
1974	110415	.5 ~ 1	24-MAR-93	Silver	3.900	-	.000	mg/kg
1975	110389	.5 ~ 1	22-MAR-93	Lead	18.700	J	15.780	mg/kg
1975	110389	.5 ~ 1	22-MAR-93	Molybdenum	4.000	-	.270	mg/kg
1975	110389	.5 ~ 1	22-MAR-93	Silver	4.100	-	.000	mg/kg

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000489

TABLE F-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	Background Concentration	UNITS
<u>METALS (Continued)</u>								
1975	112545	4 - 5	13-APR-93	Aluminum	16600.000	-	16277.291	mg/kg
1975	112545	4 - 5	13-APR-93	Beryllium	.850	-	.620	mg/kg
1975	112545	4 - 5	13-APR-93	Arsenic	11.900	-	9.704	mg/kg
1975	112545	4 - 5	13-APR-93	Molybdenum	7.700	-	.270	mg/kg
1975	112545	4 - 5	13-APR-93	Copper	24.400	-	20.230	mg/kg
1975	112545	4 - 5	13-APR-93	Silver	8.700	-	.000	mg/kg
1975	112545	4 - 5	13-APR-93	Barium	179.000	-	121.064	mg/kg
1975	112550	8.5 - 10.5	13-APR-93	Copper	21.300	-	20.230	mg/kg
1975	112550	8.5 - 10.5	13-APR-93	Potassium	2210.000	-	2007.519	mg/kg
1975	112550	8.5 - 10.5	13-APR-93	Silver	7.400	-	.000	mg/kg
1975	112550	8.5 - 10.5	13-APR-93	Molybdenum	7.500	-	.270	mg/kg
1977	110571	8.5 - 10	06-APR-93	Beryllium	.770	-	.620	mg/kg
1977	110571	8.5 - 10	06-APR-93	Molybdenum	5.700	-	.270	mg/kg
1977	110571	8.5 - 10	06-APR-93	Silver	6.300	-	.000	mg/kg
1977	110571	8.5 - 10	06-APR-93	Copper	20.800	-	20.230	mg/kg
1977	110579	16.5 - 18.5	07-APR-93	Molybdenum	5.500	-	.270	mg/kg
1977	110579	16.5 - 18.5	07-APR-93	Silver	3.800	-	.000	mg/kg
1978	110406	.5 - 1	24-MAR-93	Molybdenum	7.100	J	.270	mg/kg
1978	110406	.5 - 1	24-MAR-93	Silver	5.600	-	.000	mg/kg
1978	112584	9.5 - 11	16-APR-93	Beryllium	1.000	-	.620	mg/kg
1978	112584	9.5 - 11	16-APR-93	Silver	7.200	-	.000	mg/kg
1978	112584	9.5 - 11	16-APR-93	Molybdenum	6.400	-	.270	mg/kg
1978	112584	9.5 - 11	16-APR-93	Copper	23.900	-	20.230	mg/kg
1978	112588	13.5 - 15	16-APR-93	Calcium	252000.000	-	150000.000	mg/kg
SF-SS-19	110369	.5 - 1	22-MAR-93	Lead	60.300	J	15.780	mg/kg
SF-SS-19	110369	.5 - 1	22-MAR-93	Molybdenum	4.500	-	.270	mg/kg
SF-SS-19	110369	.5 - 1	22-MAR-93	Silver	4.500	-	.000	mg/kg
TRENCH #1	113718	2 - 2	03-JUN-93	Copper	26.700	-	20.230	mg/kg
TRENCH #1	113718	2 - 2	03-JUN-93	Cyanide	.430	-	.170	mg/kg
TRENCH #1	113718	2 - 2	03-JUN-93	Silicon	3370.000	J	1069.496	mg/kg
TRENCH #1	113718	2 - 2	03-JUN-93	Lead	36.400	-	15.780	mg/kg
TRENCH 4 SF	113722	0 - 3.42	16-JUN-93	Antimony	1.800	J	.000	mg/kg
TRENCH 4 SF	113722	0 - 3.42	16-JUN-93	Beryllium	.870	-	.620	mg/kg
TRENCH 4 SF	113722	0 - 3.42	16-JUN-93	Copper	436.000	J	20.230	mg/kg
TRENCH 4 SF	113722	0 - 3.42	16-JUN-93	Chromium	36.200	-	20.953	mg/kg
TRENCH 4 SF	113722	0 - 3.42	16-JUN-93	Cyanide	.180	-	.170	mg/kg
TRENCH 4 SF	113722	0 - 3.42	16-JUN-93	Barium	149.000	-	121.064	mg/kg
TRENCH 4 SF	113722	0 - 3.42	16-JUN-93	Zinc	508.000	-	73.158	mg/kg
TRENCH 4 SF	113722	0 - 3.42	16-JUN-93	Sodium	287.000	-	227.947	mg/kg
TRENCH 4 SF	113722	0 - 3.42	16-JUN-93	Silver	14.100	-	.000	mg/kg
TRENCH 4 SF	113722	0 - 3.42	16-JUN-93	Nickel	74.200	J	34.747	mg/kg
TRENCH 4 SF	113722	0 - 3.42	16-JUN-93	Molybdenum	17.500	-	.270	mg/kg
TRENCH 4 SF	113722	0 - 3.42	16-JUN-93	Mercury	.730	-	.290	mg/kg

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TABLE F-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	Background Concentration	UNITS
METALS (Continued)								
TRENCH 4 SF	113722	0 - 3.42	16-JUN-93	Lead	385.000	J	15.780	mg/kg
TRENCH 4 SF	113722	0 - 3.42	16-JUN-93	Iron	44100.000	-	31188.164	mg/kg
RADIONUCLIDES								
11186	112507	4.5 - 6.5	12-APR-93	GROSS ALPHA	29.300	-	.000	pCi/g
11186	112507	4.5 - 6.5	12-APR-93	NP-237	.553	N	.000	pCi/g
11186	112507	4.5 - 6.5	12-APR-93	GROSS BETA	32.100	-	.000	pCi/g
11186	112507	4.5 - 6.5	12-APR-93	RA-226	1.990	-	1.470	pCi/g
11186	112507	4.5 - 6.5	12-APR-93	TH-230	2.000	-	1.897	pCi/g
11186	112507	4.5 - 6.5	12-APR-93	U-235/236	.300	J	.142	pCi/g
11186	112507	4.5 - 6.5	12-APR-93	U-238	6.610	-	1.122	pCi/g
11186	112507	4.5 - 6.5	12-APR-93	U-234	6.050	-	1.034	pCi/g
11186	112507	4.5 - 6.5	12-APR-93	SR-90	.815	J	.560	pCi/g
11186	112507	4.5 - 6.5	12-APR-93	PU-239/240	.042	J	.000	pCi/g
11186	112507	4.5 - 6.5	12-APR-93	PU-238	.044	J	.000	pCi/g
11186	112514	9.5 - 11	12-APR-93	GROSS ALPHA	26.800	-	.000	pCi/g
11186	112514	9.5 - 11	12-APR-93	NP-237	.267	N	.000	pCi/g
11186	112514	9.5 - 11	12-APR-93	U-TOTAL	17.500	-	2.540	mg/kg
11186	112514	9.5 - 11	12-APR-93	U-238	2.730	-	1.122	pCi/g
11186	112514	9.5 - 11	12-APR-93	U-235/236	.153	J	.142	pCi/g
11186	112514	9.5 - 11	12-APR-93	U-234	2.310	-	1.034	pCi/g
11186	112514	9.5 - 11	12-APR-93	SR-90	.889	J	.560	pCi/g
11186	112514	9.5 - 11	12-APR-93	PU-238	.025	J	.000	pCi/g
11186	112514	9.5 - 11	12-APR-93	GROSS BETA	29.800	-	.000	pCi/g
11187	112520	4 - 6	13-APR-93	GROSS ALPHA	176.000	-	.000	pCi/g
11187	112520	4 - 6	13-APR-93	NP-237	.316	N	.000	pCi/g
11187	112520	4 - 6	13-APR-93	U-TOTAL	297.000	-	2.540	mg/kg
11187	112520	4 - 6	13-APR-93	TH-232	1.290	-	1.269	pCi/g
11187	112520	4 - 6	13-APR-93	TH-TOTAL	11.800	-	9.470	mg/kg
11187	112520	4 - 6	13-APR-93	TH-230	2.610	-	1.897	pCi/g
11187	112520	4 - 6	13-APR-93	RA-228	1.540	-	1.325	pCi/g
11187	112520	4 - 6	13-APR-93	PU-239/240	.016	J	.000	pCi/g
11187	112520	4 - 6	13-APR-93	PU-238	.023	-	.000	pCi/g
11187	112520	4 - 6	13-APR-93	GROSS BETA	157.000	-	.000	pCi/g
11187	112526	9 - 10.5	13-APR-93	GROSS ALPHA	29.800	-	.000	pCi/g
11187	112526	9 - 10.5	13-APR-93	U-TOTAL	12.300	-	2.540	mg/kg
11187	112526	9 - 10.5	13-APR-93	U-238	4.550	-	1.122	pCi/g
11187	112526	9 - 10.5	13-APR-93	U-234	3.510	-	1.034	pCi/g
11187	112526	9 - 10.5	13-APR-93	SR-90	.892	J	.560	pCi/g
11187	112526	9 - 10.5	13-APR-93	PU-239/240	.034	J	.000	pCi/g
11187	112526	9 - 10.5	13-APR-93	PU-238	.024	J	.000	pCi/g
11187	112526	9 - 10.5	13-APR-93	NP-237	6.530	-	.000	pCi/g
11187	112526	9 - 10.5	13-APR-93	GROSS BETA	42.300	-	.000	pCi/g

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00004931

TABLE F-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	Background Concentration	UNITS
<u>RADIONUCLIDES (Continued)</u>								
11188	110547	4.5 - 6	02-APR-93	GROSS ALPHA	18.100	-	.000	pCi/g
11188	110547	4.5 - 6	02-APR-93	NP-237	.078	N	.000	pCi/g
11188	110547	4.5 - 6	02-APR-93	GROSS BETA	19.500	-	.000	pCi/g
11188	110547	4.5 - 6	02-APR-93	SR-90	2.390	J	.560	pCi/g
11188	110547	4.5 - 6	02-APR-93	PU-238	.025	J	.000	pCi/g
11188	110547	4.5 - 6	02-APR-93	U-TOTAL	6.680	J	2.540	mg/kg
11188	110547	4.5 - 6	02-APR-93	U-238	1.860	-	1.122	pCi/g
11188	110547	4.5 - 6	02-APR-93	U-235/236	.146	J	.142	pCi/g
11188	110547	4.5 - 6	02-APR-93	U-234	1.750	-	1.034	pCi/g
11188	110556	10 - 11	02-APR-93	GROSS ALPHA	17.300	-	.000	pCi/g
11188	110556	10 - 11	02-APR-93	GROSS BETA	19.200	-	.000	pCi/g
11188	110556	10 - 11	02-APR-93	PU-239/240	.015	J	.000	pCi/g
11188	110556	10 - 11	02-APR-93	SR-90	.789	J	.560	pCi/g
11188	110556	10 - 11	02-APR-93	NP-237	.037	N	.000	pCi/g
1964	112648	5 - 6.5	17-APR-93	GROSS ALPHA	23.900	-	.000	pCi/g
1964	112648	5 - 6.5	17-APR-93	GROSS BETA	33.800	-	.000	pCi/g
1964	112648	5 - 6.5	17-APR-93	U-TOTAL	16.700	J	2.540	mg/kg
1964	112648	5 - 6.5	17-APR-93	U-238	2.910	-	1.122	pCi/g
1964	112648	5 - 6.5	17-APR-93	U-234	2.590	-	1.034	pCi/g
1964	112648	5 - 6.5	17-APR-93	PU-239/240	.030	J	.000	pCi/g
1964	112648	5 - 6.5	17-APR-93	NP-237	.070	N	.000	pCi/g
1964	112685	29 - 30.5	17-APR-93	GROSS ALPHA	10.200	-	.000	pCi/g
1964	112685	29 - 30.5	17-APR-93	U-TOTAL	10.300	J	2.540	mg/kg
1964	112685	29 - 30.5	17-APR-93	GROSS BETA	13.900	-	.000	pCi/g
1965	112737	4 - 6	20-APR-93	GROSS ALPHA	15.100	-	.000	pCi/g
1965	112737	4 - 6	20-APR-93	U-TOTAL	20.600	-	2.540	mg/kg
1965	112737	4 - 6	20-APR-93	U-238	3.040	-	1.122	pCi/g
1965	112737	4 - 6	20-APR-93	U-234	3.070	-	1.034	pCi/g
1965	112737	4 - 6	20-APR-93	TH-230	2.810	J	1.897	pCi/g
1965	112737	4 - 6	20-APR-93	PU-238	.097	J	.000	pCi/g
1965	112737	4 - 6	20-APR-93	NP-237	.032	N	.000	pCi/g
1965	112737	4 - 6	20-APR-93	GROSS BETA	22.300	-	.000	pCi/g
1965	112763	26.5 - 28	21-APR-93	GROSS BETA	22.000	-	.000	pCi/g
1965	112763	26.5 - 28	21-APR-93	U-TOTAL	9.810	-	2.540	mg/kg
1966	110405	.5 - 1	24-MAR-93	CS-137	.301	-	.000	pCi/g
1966	110405	.5 - 1	24-MAR-93	U-TOTAL	31.720	-	2.540	mg/kg
1966	110405	.5 - 1	24-MAR-93	U-238	10.600	-	1.122	pCi/g
1966	110405	.5 - 1	24-MAR-93	U-235/236	.473	J	.142	pCi/g
1966	110405	.5 - 1	24-MAR-93	U-234	8.050	-	1.034	pCi/g
1966	110405	.5 - 1	24-MAR-93	TH-TOTAL	26.000	-	9.470	mg/kg
1966	110405	.5 - 1	24-MAR-93	TH-232	2.860	-	1.269	pCi/g
1966	110405	.5 - 1	24-MAR-93	TH-230	4.650	-	1.897	pCi/g
1966	110405	.5 - 1	24-MAR-93	TH-228	2.860	-	1.341	pCi/g

TABLE F-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	Background Concentration	UNITS
RADIONUCLIDES (Continued)								
1966	110405	.5 - 1	24-MAR-93	RA-228	3.380	-	1.325	pCi/g
1966	110405	.5 - 1	24-MAR-93	PU-239/240	.045	J	.000	pCi/g
1966	110405	.5 - 1	24-MAR-93	PU-238	.052	J	.000	pCi/g
1966	110405	.5 - 1	24-MAR-93	NP-237	.283	N	.000	pCi/g
1966	110405	.5 - 1	24-MAR-93	GROSS BETA	103.000	J	.000	pCi/g
1966	110405	.5 - 1	24-MAR-93	GROSS ALPHA	57.600	-	.000	pCi/g
1966	112859	4.5 - 6.5	21-APR-93	GROSS ALPHA	21.700	-	.000	pCi/g
1966	112859	4.5 - 6.5	21-APR-93	U-TOTAL	13.900	-	2.540	mg/kg
1966	112859	4.5 - 6.5	21-APR-93	U-238	1.900	-	1.122	pCi/g
1966	112859	4.5 - 6.5	21-APR-93	U-234	1.780	-	1.034	pCi/g
1966	112859	4.5 - 6.5	21-APR-93	GROSS BETA	46.500	-	.000	pCi/g
1966	112859	4.5 - 6.5	21-APR-93	SR-90	.861	J	.560	pCi/g
1966	112859	4.5 - 6.5	21-APR-93	RA-226	1.840	-	1.470	pCi/g
1966	112883	24 - 25	22-APR-93	GROSS ALPHA	19.100	-	.000	pCi/g
1966	112883	24 - 25	22-APR-93	SR-90	.963	J	.560	pCi/g
1966	112883	24 - 25	22-APR-93	U-TOTAL	12.600	-	2.540	mg/kg
1966	112883	24 - 25	22-APR-93	NP-237	.070	N	.000	pCi/g
1966	112883	24 - 25	22-APR-93	GROSS BETA	34.300	-	.000	pCi/g
1967	110362	.5 - 1	22-MAR-93	CS-137	.237	-	.000	pCi/g
1967	110362	.5 - 1	22-MAR-93	U-TOTAL	7.340	-	2.540	mg/kg
1967	110362	.5 - 1	22-MAR-93	U-238	2.360	-	1.122	pCi/g
1967	110362	.5 - 1	22-MAR-93	U-234	2.350	-	1.034	pCi/g
1967	110362	.5 - 1	22-MAR-93	PU-238	.096	J	.000	pCi/g
1967	110362	.5 - 1	22-MAR-93	NP-237	.166	N	.000	pCi/g
1967	110362	.5 - 1	22-MAR-93	GROSS ALPHA	14.600	-	.000	pCi/g
1967	110362	.5 - 1	22-MAR-93	GROSS BETA	39.100	-	.000	pCi/g
1967	112696	4.5 - 7.5	18-APR-93	GROSS ALPHA	21.400	-	.000	pCi/g
1967	112696	4.5 - 7.5	18-APR-93	U-238	2.560	-	1.122	pCi/g
1967	112696	4.5 - 7.5	18-APR-93	U-235/236	.160	J	.142	pCi/g
1967	112696	4.5 - 7.5	18-APR-93	U-TOTAL	15.300	J	2.540	mg/kg
1967	112696	4.5 - 7.5	18-APR-93	U-234	2.500	-	1.034	pCi/g
1967	112696	4.5 - 7.5	18-APR-93	GROSS BETA	27.000	-	.000	pCi/g
1967	112696	4.5 - 7.5	18-APR-93	TH-230	4.350	-	1.897	pCi/g
1967	112731	29.5 - 31	19-APR-93	GROSS ALPHA	21.900	-	.000	pCi/g
1967	112731	29.5 - 31	19-APR-93	TH-230	1.960	J	1.897	pCi/g
1967	112731	29.5 - 31	19-APR-93	U-TOTAL	9.170	-	2.540	mg/kg
1967	112731	29.5 - 31	19-APR-93	GROSS BETA	22.900	-	.000	pCi/g
1968	110396	.5 - 1	22-MAR-93	CS-137	.311	-	.000	pCi/g
1968	110396	.5 - 1	22-MAR-93	U-TOTAL	30.000	-	2.540	mg/kg
1968	110396	.5 - 1	22-MAR-93	U-238	9.410	-	1.122	pCi/g
1968	110396	.5 - 1	22-MAR-93	U-235/236	.474	J	.142	pCi/g
1968	110396	.5 - 1	22-MAR-93	U-234	9.130	-	1.034	pCi/g
1968	110396	.5 - 1	22-MAR-93	TH-230	1.930	-	1.897	pCi/g

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000493

TABLE F-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	Background Concentration	UNITS
<u>RADIONUCLIDES (Continued)</u>								
1968	110396	.5 - 1	22-MAR-93	NP-237	.116	N	.000	pCi/g
1968	110396	.5 - 1	22-MAR-93	GROSS BETA	42.000	-	.000	pCi/g
1968	110396	.5 - 1	22-MAR-93	GROSS ALPHA	32.600	-	.000	pCi/g
1968	112835	4.5 - 6.5	20-APR-93	GROSS ALPHA	22.500	-	.000	pCi/g
1968	112835	4.5 - 6.5	20-APR-93	U-TOTAL	14.900	-	2.540	mg/kg
1968	112835	4.5 - 6.5	20-APR-93	U-234	1.360	-	1.034	pCi/g
1968	112835	4.5 - 6.5	20-APR-93	PU-238	.103	J	.000	pCi/g
1968	112835	4.5 - 6.5	20-APR-93	GROSS BETA	27.800	-	.000	pCi/g
1968	112835	4.5 - 6.5	20-APR-93	U-238	1.710	-	1.122	pCi/g
1968	112835	4.5 - 6.5	20-APR-93	NP-237	.075	N	.000	pCi/g
1968	112849	15.5 - 16.5	20-APR-93	GROSS ALPHA	8.720	-	.000	pCi/g
1968	112849	15.5 - 16.5	20-APR-93	NP-237	.119	N	.000	pCi/g
1968	112849	15.5 - 16.5	20-APR-93	GROSS BETA	18.000	-	.000	pCi/g
1968	112849	15.5 - 16.5	20-APR-93	U-TOTAL	12.200	-	2.540	mg/kg
1969	110339	.5 - 1	22-MAR-93	GROSS ALPHA	20.400	-	.000	pCi/g
1969	110339	.5 - 1	22-MAR-93	GROSS BETA	33.200	-	.000	pCi/g
1969	110339	.5 - 1	22-MAR-93	NP-237	.356	N	.000	pCi/g
1969	110339	.5 - 1	22-MAR-93	PU-238	.068	J	.000	pCi/g
1969	110339	.5 - 1	22-MAR-93	PU-239/240	.083	J	.000	pCi/g
1969	110339	.5 - 1	22-MAR-93	U-234	3.240	-	1.034	pCi/g
1969	110339	.5 - 1	22-MAR-93	U-238	3.700	-	1.122	pCi/g
1969	110339	.5 - 1	22-MAR-93	U-TOTAL	9.850	-	2.540	mg/kg
1969	110339	.5 - 1	22-MAR-93	U-235/236	.241	-	.142	pCi/g
1969	112559	4.5 - 6	15-APR-93	GROSS ALPHA	21.500	-	.000	pCi/g
1969	112559	4.5 - 6	15-APR-93	GROSS BETA	21.000	-	.000	pCi/g
1969	112559	4.5 - 6	15-APR-93	U-234	1.440	-	1.034	pCi/g
1969	112559	4.5 - 6	15-APR-93	U-TOTAL	4.820	-	2.540	mg/kg
1969	112559	4.5 - 6	15-APR-93	U-238	1.760	-	1.122	pCi/g
1969	112559	4.5 - 6	15-APR-93	SR-90	.650	J	.560	pCi/g
1969	112559	4.5 - 6	15-APR-93	NP-237	.034	N	.000	pCi/g
1969	112563	9 - 10.5	15-APR-93	GROSS ALPHA	8.900	-	.000	pCi/g
1969	112563	9 - 10.5	15-APR-93	U-TOTAL	3.470	-	2.540	mg/kg
1969	112563	9 - 10.5	15-APR-93	SR-90	.666	J	.560	pCi/g
1969	112563	9 - 10.5	15-APR-93	PU-238	.058	J	.000	pCi/g
1969	112563	9 - 10.5	15-APR-93	NP-237	.034	N	.000	pCi/g
1969	112563	9 - 10.5	15-APR-93	GROSS BETA	19.200	-	.000	pCi/g
1970	112690	4 - 5.5	18-APR-93	CS-137	.230	-	.000	pCi/g
1970	112690	4 - 5.5	18-APR-93	U-238	3.790	-	1.122	pCi/g
1970	112690	4 - 5.5	18-APR-93	U-TOTAL	20.400	J	2.540	mg/kg
1970	112690	4 - 5.5	18-APR-93	U-234	3.680	-	1.034	pCi/g
1970	112690	4 - 5.5	18-APR-93	GROSS BETA	27.800	-	.000	pCi/g
1970	112690	4 - 5.5	18-APR-93	GROSS ALPHA	21.300	-	.000	pCi/g
1970	112690	4 - 5.5	18-APR-93	PU-238	.280	J	.000	pCi/g

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TABLE F-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	Background Concentration	UNITS
RADIONUCLIDES (Continued)								
1970	112690	4 - 5.5	18-APR-93	SR-90	.800	J	.560	pCi/g
1970	112893	9 - 10.5	18-APR-93	GROSS BETA	19.800	-	.000	pCi/g
1970	112893	9 - 10.5	18-APR-93	U-TOTAL	16.200	J	2.540	mg/kg
1970	112893	9 - 10.5	18-APR-93	U-234	1.060	-	1.034	pCi/g
1970	112893	9 - 10.5	18-APR-93	SR-90	.690	J	.560	pCi/g
1970	112893	9 - 10.5	18-APR-93	PU-238	.160	J	.000	pCi/g
1971	110327	.5 - 1	22-MAR-93	GROSS ALPHA	22.900	-	.000	pCi/g
1971	110327	.5 - 1	22-MAR-93	PU-238	.016	J	.000	pCi/g
1971	110327	.5 - 1	22-MAR-93	U-TOTAL	16.700	-	2.540	mg/kg
1971	110327	.5 - 1	22-MAR-93	U-238	4.840	-	1.122	pCi/g
1971	110327	.5 - 1	22-MAR-93	U-235/236	.261	J	.142	pCi/g
1971	110327	.5 - 1	22-MAR-93	U-234	5.050	-	1.034	pCi/g
1971	110327	.5 - 1	22-MAR-93	PU-239/240	.021	J	.000	pCi/g
1971	110327	.5 - 1	22-MAR-93	NP-237	.077	N	.000	pCi/g
1971	110327	.5 - 1	22-MAR-93	GROSS BETA	36.800	-	.000	pCi/g
1971	112536	4.5 - 6.5	15-APR-93	GROSS ALPHA	17.100	-	.000	pCi/g
1971	112536	4.5 - 6.5	15-APR-93	U-TOTAL	2.580	J	2.540	mg/kg
1971	112536	4.5 - 6.5	15-APR-93	U-238	1.340	-	1.122	pCi/g
1971	112536	4.5 - 6.5	15-APR-93	U-234	1.070	-	1.034	pCi/g
1971	112536	4.5 - 6.5	15-APR-93	SR-90	1.360	J	.560	pCi/g
1971	112536	4.5 - 6.5	15-APR-93	RA-228	1.540	-	1.325	pCi/g
1971	112536	4.5 - 6.5	15-APR-93	PU-238	.035	J	.000	pCi/g
1971	112536	4.5 - 6.5	15-APR-93	GROSS BETA	32.900	-	.000	pCi/g
1971	112593	9.5 - 11	15-APR-93	GROSS ALPHA	16.000	-	.000	pCi/g
1971	112593	9.5 - 11	15-APR-93	GROSS BETA	29.700	-	.000	pCi/g
1971	112593	9.5 - 11	15-APR-93	U-TOTAL	5.680	-	2.540	mg/kg
1971	112593	9.5 - 11	15-APR-93	PU-239/240	.021	J	.000	pCi/g
1971	112593	9.5 - 11	15-APR-93	SR-90	1.780	J	.560	pCi/g
1972	110382	.5 - 1	19-MAR-93	CS-137	.547	-	.000	pCi/g
1972	110382	.5 - 1	19-MAR-93	U-TOTAL	36.200	-	2.540	mg/kg
1972	110382	.5 - 1	19-MAR-93	U-238	8.090	-	1.122	pCi/g
1972	110382	.5 - 1	19-MAR-93	U-235/236	.287	-	.142	pCi/g
1972	110382	.5 - 1	19-MAR-93	U-234	7.480	-	1.034	pCi/g
1972	110382	.5 - 1	19-MAR-93	GROSS ALPHA	267.000	J	.000	pCi/g
1972	110382	.5 - 1	19-MAR-93	GROSS BETA	95.800	J	.000	pCi/g
1972	110382	.5 - 1	19-MAR-93	RA-226	31.200	-	1.470	pCi/g
1972	110382	.5 - 1	19-MAR-93	RA-228	2.070	-	1.325	pCi/g
1972	110382	.5 - 1	19-MAR-93	PU-238	.059	J	.000	pCi/g
1972	110584	2.5 - 4	08-APR-93	GROSS ALPHA	62.700	-	.000	pCi/g
1972	110584	2.5 - 4	08-APR-93	NP-237	.369	N	.000	pCi/g
1972	110584	2.5 - 4	08-APR-93	U-TOTAL	47.600	-	2.540	mg/kg
1972	110584	2.5 - 4	08-APR-93	U-238	15.700	-	1.122	pCi/g
1972	110584	2.5 - 4	08-APR-93	U-235/236	.830	-	.142	pCi/g

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TABLE F-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	Background Concentration	UNITS
RADIONUCLIDES (Continued)								
1972	110584	2.5 - 4	08-APR-93	U-234	15.200	-	1.034	pCi/g
1972	110584	2.5 - 4	08-APR-93	TH-230	4.180	-	1.897	pCi/g
1972	110584	2.5 - 4	08-APR-93	SR-90	1.280	J	.560	pCi/g
1972	110584	2.5 - 4	08-APR-93	RA-226	5.140	-	1.470	pCi/g
1972	110584	2.5 - 4	08-APR-93	GROSS BETA	51.200	-	.000	pCi/g
1972	112494	7.5 - 9	08-APR-93	GROSS ALPHA	29.000	-	.000	pCi/g
1972	112494	7.5 - 9	08-APR-93	GROSS BETA	26.700	-	.000	pCi/g
1972	112494	7.5 - 9	08-APR-93	NP-237	.291	N	.000	pCi/g
1972	112494	7.5 - 9	08-APR-93	PU-238	.029	J	.000	pCi/g
1972	112494	7.5 - 9	08-APR-93	U-TOTAL	14.400	-	2.540	mg/kg
1972	112494	7.5 - 9	08-APR-93	U-238	5.000	-	1.122	pCi/g
1972	112494	7.5 - 9	08-APR-93	U-235/236	.260	J	.142	pCi/g
1972	112494	7.5 - 9	08-APR-93	U-234	4.480	-	1.034	pCi/g
1972	112494	7.5 - 9	08-APR-93	PU-239/240	.030	J	.000	pCi/g
1973	110413	.5 - 1	24-MAR-93	GROSS ALPHA	52.500	-	.000	pCi/g
1973	110413	.5 - 1	24-MAR-93	GROSS BETA	62.600	J	.000	pCi/g
1973	110413	.5 - 1	24-MAR-93	PU-238	.042	J	.000	pCi/g
1973	110413	.5 - 1	24-MAR-93	U-TOTAL	29.000	-	2.540	mg/kg
1973	110413	.5 - 1	24-MAR-93	U-238	9.320	-	1.122	pCi/g
1973	110413	.5 - 1	24-MAR-93	U-235/236	.428	J	.142	pCi/g
1973	110413	.5 - 1	24-MAR-93	U-234	9.220	-	1.034	pCi/g
1973	110413	.5 - 1	24-MAR-93	TH-230	3.190	-	1.897	pCi/g
1973	110413	.5 - 1	24-MAR-93	RA-226	3.010	-	1.470	pCi/g
1973	110413	.5 - 1	24-MAR-93	PU-239/240	.031	J	.000	pCi/g
1973	110413	.5 - 1	24-MAR-93	NP-237	.167	N	.000	pCi/g
1974	110415	.5 - 1	24-MAR-93	CS-137	.165	-	.000	pCi/g
1974	110415	.5 - 1	24-MAR-93	U-TOTAL	91.500	-	2.540	mg/kg
1974	110415	.5 - 1	24-MAR-93	TH-232	1.520	-	1.269	pCi/g
1974	110415	.5 - 1	24-MAR-93	TH-230	3.010	-	1.897	pCi/g
1974	110415	.5 - 1	24-MAR-93	TH-228	2.090	-	1.341	pCi/g
1974	110415	.5 - 1	24-MAR-93	RA-228	2.230	-	1.325	pCi/g
1974	110415	.5 - 1	24-MAR-93	RA-226	1.640	-	1.470	pCi/g
1974	110415	.5 - 1	24-MAR-93	PU-239/240	.026	J	.000	pCi/g
1974	110415	.5 - 1	24-MAR-93	PU-238	.042	J	.000	pCi/g
1974	110415	.5 - 1	24-MAR-93	NP-237	.142	N	.000	pCi/g
1974	110415	.5 - 1	24-MAR-93	U-238	29.300	-	1.122	pCi/g
1974	110415	.5 - 1	24-MAR-93	U-235/236	1.450	-	.142	pCi/g
1974	110415	.5 - 1	24-MAR-93	U-234	29.700	-	1.034	pCi/g
1974	110415	.5 - 1	24-MAR-93	TH-TOTAL	13.800	-	9.470	mg/kg
1974	110415	.5 - 1	24-MAR-93	GROSS ALPHA	78.900	-	.000	pCi/g
1974	110415	.5 - 1	24-MAR-93	GROSS BETA	68.000	J	.000	pCi/g
1975	110389	.5 - 1	22-MAR-93	GROSS ALPHA	51.400	-	.000	pCi/g
1975	110389	.5 - 1	22-MAR-93	U-TOTAL	29.700	J	2.540	mg/kg

TABLE F-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	Background Concentration	UNITS
RADIONUCLIDES (Continued)								
1975	110389	.5 - 1	22-MAR-93	U-238	10.200	-	1.122	pCi/g
1975	110389	.5 - 1	22-MAR-93	U-235/236	.440	J	.142	pCi/g
1975	110389	.5 - 1	22-MAR-93	U-234	9.860	-	1.034	pCi/g
1975	110389	.5 - 1	22-MAR-93	PU-238	.050	J	.000	pCi/g
1975	110389	.5 - 1	22-MAR-93	TH-230	4.060	-	1.897	pCi/g
1975	110389	.5 - 1	22-MAR-93	RA-226	1.510	-	1.470	pCi/g
1975	110389	.5 - 1	22-MAR-93	GROSS BETA	45.500	-	.000	pCi/g
1975	112545	4 - 5	13-APR-93	GROSS ALPHA	16.900	-	.000	pCi/g
1975	112545	4 - 5	13-APR-93	U-TOTAL	11.600	-	2.540	mg/kg
1975	112545	4 - 5	13-APR-93	U-238	2.740	-	1.122	pCi/g
1975	112545	4 - 5	13-APR-93	U-234	2.490	-	1.034	pCi/g
1975	112545	4 - 5	13-APR-93	TH-TOTAL	10.700	-	9.470	mg/kg
1975	112545	4 - 5	13-APR-93	SR-90	1.570	-	.560	pCi/g
1975	112545	4 - 5	13-APR-93	RA-228	1.420	-	1.325	pCi/g
1975	112545	4 - 5	13-APR-93	PU-239/240	.021	J	.000	pCi/g
1975	112545	4 - 5	13-APR-93	PU-238	.049	J	.000	pCi/g
1975	112545	4 - 5	13-APR-93	GROSS BETA	32.300	-	.000	pCi/g
1975	112545	4 - 5	13-APR-93	NP-237	.269	N	.000	pCi/g
1975	112550	8.5 - 10.5	13-APR-93	GROSS ALPHA	13.000	-	.000	pCi/g
1975	112550	8.5 - 10.5	13-APR-93	PU-238	.167	J	.000	pCi/g
1975	112550	8.5 - 10.5	13-APR-93	U-TOTAL	4.820	-	2.540	mg/kg
1975	112550	8.5 - 10.5	13-APR-93	NP-237	.306	N	.000	pCi/g
1975	112550	8.5 - 10.5	13-APR-93	GROSS BETA	24.000	-	.000	pCi/g
1977	110571	8.5 - 10	06-APR-93	CS-137	.070	J	.000	pCi/g
1977	110571	8.5 - 10	06-APR-93	U-TOTAL	35.900	-	2.540	mg/kg
1977	110571	8.5 - 10	06-APR-93	U-238	10.400	-	1.122	pCi/g
1977	110571	8.5 - 10	06-APR-93	U-235/236	.580	J	.142	pCi/g
1977	110571	8.5 - 10	06-APR-93	U-234	9.370	-	1.034	pCi/g
1977	110571	8.5 - 10	06-APR-93	PU-239/240	.030	J	.000	pCi/g
1977	110571	8.5 - 10	06-APR-93	PU-238	.050	J	.000	pCi/g
1977	110571	8.5 - 10	06-APR-93	NP-237	.440	N	.000	pCi/g
1977	110571	8.5 - 10	06-APR-93	GROSS BETA	36.500	-	.000	pCi/g
1977	110571	8.5 - 10	06-APR-93	GROSS ALPHA	28.200	-	.000	pCi/g
1977	110579	16.5 - 18.5	07-APR-93	GROSS ALPHA	19.600	-	.000	pCi/g
1977	110579	16.5 - 18.5	07-APR-93	NP-237	.112	N	.000	pCi/g
1977	110579	16.5 - 18.5	07-APR-93	GROSS BETA	21.000	-	.000	pCi/g
1977	110579	16.5 - 18.5	07-APR-93	SR-90	.590	J	.560	pCi/g
1977	110579	16.5 - 18.5	07-APR-93	U-TOTAL	3.500	J	2.540	mg/kg
1977	110579	16.5 - 18.5	07-APR-93	U-234	1.090	-	1.034	pCi/g
1977	110579	16.5 - 18.5	07-APR-93	PU-238	.023	J	.000	pCi/g
1978	110406	.5 - 1	24-MAR-93	GROSS ALPHA	23.600	-	.000	pCi/g
1978	110406	.5 - 1	24-MAR-93	GROSS BETA	38.400	J	.000	pCi/g
1978	110406	.5 - 1	24-MAR-93	U-TOTAL	10.700	-	2.540	mg/kg

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TABLE F-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	Background Concentration	UNITS
<u>RADIONUCLIDES (Continued)</u>								
1978	110406	.5 - 1	24-MAR-93	U-238	3.460	-	1.122	pCi/g
1978	110406	.5 - 1	24-MAR-93	U-235/236	.169	J	.142	pCi/g
1978	110406	.5 - 1	24-MAR-93	U-234	3.190	-	1.034	pCi/g
1978	110406	.5 - 1	24-MAR-93	PU-238	.047	J	.000	pCi/g
1978	110406	.5 - 1	24-MAR-93	NP-237	.219	N	.000	pCi/g
1978	112584	9.5 - 11	16-APR-93	GROSS ALPHA	18.600	-	.000	pCi/g
1978	112584	9.5 - 11	16-APR-93	NP-237	.046	N	.000	pCi/g
1978	112584	9.5 - 11	16-APR-93	GROSS BETA	34.300	-	.000	pCi/g
1978	112584	9.5 - 11	16-APR-93	U-TOTAL	5.760	-	2.540	mg/kg
1978	112584	9.5 - 11	16-APR-93	SR-90	.570	J	.560	pCi/g
1978	112584	9.5 - 11	16-APR-93	RA-228	1.410	-	1.325	pCi/g
1978	112584	9.5 - 11	16-APR-93	PU-238	.735	J	.000	pCi/g
1978	112588	13.5 - 15	16-APR-93	GROSS ALPHA	18.700	-	.000	pCi/g
1978	112588	13.5 - 15	16-APR-93	GROSS BETA	20.500	-	.000	pCi/g
1978	112588	13.5 - 15	16-APR-93	U-TOTAL	4.740	-	2.540	mg/kg
SF-SS-19	110369	.5 - 1	22-MAR-93	CS-137	.334	-	.000	pCi/g
SF-SS-19	110369	.5 - 1	22-MAR-93	GROSS BETA	33.800	-	.000	pCi/g
SF-SS-19	110369	.5 - 1	22-MAR-93	U-TOTAL	12.500	-	2.540	mg/kg
SF-SS-19	110369	.5 - 1	22-MAR-93	U-238	3.990	-	1.122	pCi/g
SF-SS-19	110369	.5 - 1	22-MAR-93	U-235/236	.150	J	.142	pCi/g
SF-SS-19	110369	.5 - 1	22-MAR-93	U-234	3.220	-	1.034	pCi/g
SF-SS-19	110369	.5 - 1	22-MAR-93	TH-230	1.930	-	1.897	pCi/g
SF-SS-19	110369	.5 - 1	22-MAR-93	SR-90	.894	J	.560	pCi/g
SF-SS-19	110369	.5 - 1	22-MAR-93	PU-239/240	.048	J	.000	pCi/g
SF-SS-19	110369	.5 - 1	22-MAR-93	NP-237	.076	N	.000	pCi/g
SF-SS-19	110369	.5 - 1	22-MAR-93	GROSS ALPHA	25.600	-	.000	pCi/g
TRENCH #1	113105	0 - 7	28-MAY-93	CS-137	.110	J	.000	pCi/g
TRENCH #1	113105	0 - 7	28-MAY-93	GROSS BETA	91.600	-	.000	pCi/g
TRENCH #1	113105	0 - 7	28-MAY-93	GROSS ALPHA	104.000	-	.000	pCi/g
TRENCH #1	113105	0 - 7	28-MAY-93	RA-226	1.770	-	1.470	pCi/g
TRENCH #1	113105	0 - 7	28-MAY-93	U-TOTAL	165.000	-	2.540	mg/kg
TRENCH #1	113105	0 - 7	28-MAY-93	U-234	44.500	-	1.034	pCi/g
TRENCH #1	113105	0 - 7	28-MAY-93	TH-TOTAL	28.900	J	9.470	mg/kg
TRENCH #1	113105	0 - 7	28-MAY-93	TH-232	3.180	J	1.269	pCi/g
TRENCH #1	113105	0 - 7	28-MAY-93	TH-230	6.270	J	1.897	pCi/g
TRENCH #1	113105	0 - 7	28-MAY-93	TH-228	2.550	J	1.341	pCi/g
TRENCH #1	113105	0 - 7	28-MAY-93	RA-228	3.740	-	1.325	pCi/g
TRENCH #1	113105	0 - 7	28-MAY-93	PU-238	.040	J	.000	pCi/g
TRENCH #1	113105	0 - 7	28-MAY-93	NP-237	.120	N	.000	pCi/g
TRENCH #1	113105	0 - 7	28-MAY-93	U-238	46.800	-	1.122	pCi/g
TRENCH #1	113105	0 - 7	28-MAY-93	U-235/236	2.620	-	.142	pCi/g
TRENCH 2 SF	113724	-		RA-226	9.21	-	1.470	pCi/g
TRENCH 2 SF	113724	-		RA-228	1.65	-	1.325	pCi/g

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TABLE F-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	Background Concentration	UNITS
RADIONUCLIDES (Continued)								
TRENCH 2 SF	113724	-		TH-228	13.4	-	1.341	pCi/g
TRENCH 2 SF	113724	-		TH-230	37.6	-	1.897	pCi/g
TRENCH 2 SF	113724	-		TH-232	12.9	-	1.269	pCi/g
TRENCH 2 SF	113724	-		U-234	228	-	1.034	pCi/g
TRENCH 2 SF	113724	-		U-235/236	11.9	-	0.142	pCi/g
TRENCH 2 SF	113724	-		U-238	241	-	1.122	pCi/g
TRENCH 2 SF	113724	-		U-TOTAL	725	-	2.540	mg/kg
TRENCH 2 SF	113724	-		RA-228	675	-	1.325	pCi/g
TRENCH 2 SF	113724	-		TH-228	595	-	1.341	pCi/g
TRENCH 2 SF	113724	-		TH-230	51.6	-	1.897	pCi/g
TRENCH 2 SF	113724	-		TH-232	600	-	1.269	pCi/g
TRENCH 2 SF	113724	-		U-234	17.7	-	1.034	pCi/g
TRENCH 2 SF	113724	-		U-235/236	1.25	-	1.142	pCi/g
TRENCH 2 SF	113724	-		U-238	18.0	-	1.122	pCi/g
TRENCH 4 SF	113722	0 - 3.42	16-JUN-93	GROSS ALPHA	242.000	J	.000	pCi/g
TRENCH 4 SF	113722	0 - 3.42	16-JUN-93	RA-226	5.760	-	1.470	pCi/g
TRENCH 4 SF	113722	0 - 3.42	16-JUN-93	GROSS BETA	530.000	J	.000	pCi/g
TRENCH 4 SF	113722	0 - 3.42	16-JUN-93	U-TOTAL	1170.000	-	2.540	mg/kg
TRENCH 4 SF	113722	0 - 3.42	16-JUN-93	U-238	397.000	N	1.122	pCi/g
TRENCH 4 SF	113722	0 - 3.42	16-JUN-93	U-235/236	19.700	N	.142	pCi/g
TRENCH 4 SF	113722	0 - 3.42	16-JUN-93	U-234	378.000	N	1.034	pCi/g
VOLATILE ORGANICS								
11188	110547	4.5 - 6	02-APR-93	Acetone	4.000	J	.000	ug/kg
11188	110547	4.5 - 6	02-APR-93	Toluene	41.000	-	.000	ug/kg
11188	110556	10 - 11	02-APR-93	2-Butanone	6.000	J	.000	ug/kg
11188	110556	10 - 11	02-APR-93	Toluene	8.000	J	.000	ug/kg
11188	110556	10 - 11	02-APR-93	Acetone	45.000	J	.000	ug/kg
1964	112648	5 - 6.5	17-APR-93	Acetone	7.000	J	.000	ug/kg
1964	112648	5 - 6.5	17-APR-93	Toluene	3.000	J	.000	ug/kg
1964	112685	29 - 30.5	17-APR-93	2-Butanone	1.000	J	.000	ug/kg
1964	112685	29 - 30.5	17-APR-93	Toluene	20.000	-	.000	ug/kg
1965	112737	4 - 6	20-APR-93	Toluene	3.000	J	.000	ug/kg
1965	112763	26.5 - 28	21-APR-93	Toluene	1.000	J	.000	ug/kg
1966	112859	4.5 - 6.5	21-APR-93	Toluene	11.000	J	.000	ug/kg
1967	112696	4.5 - 7.5	18-APR-93	Toluene	39.000	-	.000	ug/kg
1967	112731	29.5 - 31	19-APR-93	Toluene	2.000	J	.000	ug/kg
1968	112835	4.5 - 6.5	20-APR-93	2-Butanone	11.000	J	.000	ug/kg
1968	112835	4.5 - 6.5	20-APR-93	Acetone	56.000	-	.000	ug/kg
1968	112835	4.5 - 6.5	20-APR-93	Toluene	4.000	J	.000	ug/kg
1968	112849	15.5 - 16.5	20-APR-93	Acetone	3.000	J	.000	ug/kg
1968	112849	15.5 - 16.5	20-APR-93	Toluene	52.000	-	.000	ug/kg
1969	112563	9 - 10.5	15-APR-93	Toluene	17.000	-	.000	ug/kg

TABLE F-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	Background Concentration	UNITS
VOLATILE ORGANICS (Continued)								
1970	112690	4 - 5.5	18-APR-93	Toluene	1.000	J	.000	ug/kg
1970	112893	9 - 10.5	18-APR-93	Acetone	5.000	J	.000	ug/kg
1971	112593	9.5 - 11	15-APR-93	Acetone	3.000	J	.000	ug/kg
1971	112593	9.5 - 11	15-APR-93	Toluene	3.000	J	.000	ug/kg
1972	110584	2.5 - 4	08-APR-93	Acetone	6.000	J	.000	ug/kg
1972	110584	2.5 - 4	08-APR-93	Toluene	11.000	J	.000	ug/kg
1972	112494	7.5 - 9	08-APR-93	Acetone	3.000	J	.000	ug/kg
1977	110571	8.5 - 10	06-APR-93	Acetone	8.000	J	.000	ug/kg
1977	110571	8.5 - 10	06-APR-93	Toluene	2.000	J	.000	ug/kg
1977	110579	16.5 - 18.5	07-APR-93	2-Butanone	2.000	J	.000	ug/kg
1977	110579	16.5 - 18.5	07-APR-93	Carbon disulfide	4.000	J	.000	ug/kg
1977	110579	16.5 - 18.5	07-APR-93	Toluene	31.000	-	.000	ug/kg
1977	110579	16.5 - 18.5	07-APR-93	Acetone	14.000	-	.000	ug/kg
1978	110406	.5 - 1	24-MAR-93	Toluene	1.000	J	.000	ug/kg
1978	112584	9.5 - 11	16-APR-93	Acetone	5.000	J	.000	ug/kg
1978	112588	13.5 - 15	16-APR-93	Acetone	3.000	J	.000	ug/kg
TRENCH 4 SF	113722	0 - 3.42	16-JUN-93	Carbon disulfide	2.000	J	.000	ug/kg
SEMIVOLATILE ORGANICS								
11187	112520	4 - 6	13-APR-93	Fluoranthene	110.000	J	.000	ug/kg
1964	112685	29 - 30.5	17-APR-93	bis(2-Ethylhexyl) phthalate	68.000	J	.000	ug/kg
1965	112737	4 - 6	20-APR-93	bis(2-Ethylhexyl) phthalate	44.000	J	.000	ug/kg
1966	110405	.5 - 1	24-MAR-93	2-Methylnaphthalene	91.000	J	.000	ug/kg
1966	110405	.5 - 1	24-MAR-93	Pyrene	44.000	J	.000	ug/kg
1966	110405	.5 - 1	24-MAR-93	Phenanthrene	85.000	J	.000	ug/kg
1966	110405	.5 - 1	24-MAR-93	Naphthalene	61.000	J	.000	ug/kg
1966	110405	.5 - 1	24-MAR-93	Chrysene	53.000	J	.000	ug/kg
1967	110362	.5 - 1	22-MAR-93	Benzoic acid	45.000	J	.000	ug/kg
1967	110362	.5 - 1	22-MAR-93	bis(2-Ethylhexyl) phthalate	96.000	J	.000	ug/kg
1967	112696	4.5 - 7.5	18-APR-93	bis(2-Ethylhexyl) phthalate	49.000	J	.000	ug/kg
1967	112731	29.5 - 31	19-APR-93	Benzoic acid	44.000	J	.000	ug/kg
1968	110396	.5 - 1	22-MAR-93	Benzo(a)anthracene	44.000	J	.000	ug/kg
1968	110396	.5 - 1	22-MAR-93	bis(2-Ethylhexyl) phthalate	51.000	J	.000	ug/kg
1968	110396	.5 - 1	22-MAR-93	Pyrene	76.000	J	.000	ug/kg
1968	110396	.5 - 1	22-MAR-93	Phenanthrene	52.000	J	.000	ug/kg
1968	110396	.5 - 1	22-MAR-93	Fluoranthene	96.000	J	.000	ug/kg
1968	110396	.5 - 1	22-MAR-93	Chrysene	58.000	J	.000	ug/kg
1968	110396	.5 - 1	22-MAR-93	Benzo(b)fluoranthene	42.000	J	.000	ug/kg
1969	110339	.5 - 1	22-MAR-93	Benzoic acid	57.000	J	.000	ug/kg
1969	110339	.5 - 1	22-MAR-93	bis(2-Ethylhexyl) phthalate	110.000	J	.000	ug/kg
1970	112690	4 - 5.5	18-APR-93	Benzoic acid	46.000	J	.000	ug/kg
1970	112690	4 - 5.5	18-APR-93	bis(2-Ethylhexyl) phthalate	56.000	J	.000	ug/kg
1971	110327	.5 - 1	22-MAR-93	bis(2-Ethylhexyl) phthalate	100.000	J	.000	ug/kg

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0000500

TABLE F-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	Background Concentration	UNITS
SEMIVOLATILE ORGANICS (Continued)								
1972	110382	.5 - 1	19-MAR-93	Acenaphthylene	410.000	-	.000	ug/kg
1972	110382	.5 - 1	19-MAR-93	bis(2-Ethylhexyl) phthalate	87.000	J	.000	ug/kg
1972	110382	.5 - 1	19-MAR-93	Pyrene	1400.000	-	.000	ug/kg
1972	110382	.5 - 1	19-MAR-93	Phenanthrene	350.000	J	.000	ug/kg
1972	110382	.5 - 1	19-MAR-93	Indeno(1,2,3-cd)pyrene	210.000	J	.000	ug/kg
1972	110382	.5 - 1	19-MAR-93	Fluoranthene	1800.000	-	.000	ug/kg
1972	110382	.5 - 1	19-MAR-93	Dibenzo(a,h)anthracene	440.000	-	.000	ug/kg
1972	110382	.5 - 1	19-MAR-93	Chrysene	1400.000	-	.000	ug/kg
1972	110382	.5 - 1	19-MAR-93	Carbazole	51.000	J	.000	ug/kg
1972	110382	.5 - 1	19-MAR-93	Benzo(a)pyrene	1800.000	-	.000	ug/kg
1972	110382	.5 - 1	19-MAR-93	Benzo(k)fluoranthene	1600.000	-	.000	ug/kg
1972	110382	.5 - 1	19-MAR-93	Benzo(g,h,i)perylene	1200.000	-	.000	ug/kg
1972	110382	.5 - 1	19-MAR-93	Benzo(b)fluoranthene	1600.000	-	.000	ug/kg
1972	110382	.5 - 1	19-MAR-93	Anthracene	250.000	J	.000	ug/kg
1972	110382	.5 - 1	19-MAR-93	Benzo(a)anthracene	1100.000	-	.000	ug/kg
1973	110413	.5 - 1	24-MAR-93	Benzo(a)anthracene	57.000	J	.000	ug/kg
1973	110413	.5 - 1	24-MAR-93	Pyrene	120.000	J	.000	ug/kg
1973	110413	.5 - 1	24-MAR-93	Phenanthrene	61.000	J	.000	ug/kg
1973	110413	.5 - 1	24-MAR-93	Fluoranthene	130.000	J	.000	ug/kg
1973	110413	.5 - 1	24-MAR-93	Chrysene	82.000	J	.000	ug/kg
1973	110413	.5 - 1	24-MAR-93	Benzo(k)fluoranthene	57.000	J	.000	ug/kg
1973	110413	.5 - 1	24-MAR-93	Benzo(a)pyrene	51.000	J	.000	ug/kg
1974	110415	.5 - 1	24-MAR-93	Benzo(a)pyrene	41.000	J	.000	ug/kg
1974	110415	.5 - 1	24-MAR-93	Benzo(k)fluoranthene	48.000	J	.000	ug/kg
1974	110415	.5 - 1	24-MAR-93	Pyrene	79.000	J	.000	ug/kg
1974	110415	.5 - 1	24-MAR-93	bis(2-Ethylhexyl) phthalate	55.000	J	.000	ug/kg
1974	110415	.5 - 1	24-MAR-93	Fluoranthene	83.000	J	.000	ug/kg
1975	110389	.5 - 1	22-MAR-93	bis(2-Ethylhexyl) phthalate	51.000	J	.000	ug/kg
1975	112545	4 - 5	13-APR-93	bis(2-Ethylhexyl) phthalate	71.000	J	.000	ug/kg
1978	110406	.5 - 1	24-MAR-93	Benzo(a)pyrene	3.000	J	.000	ug/kg
1978	110406	.5 - 1	24-MAR-93	bis(2-Ethylhexyl) phthalate	46.000	J	.000	ug/kg
1978	112584	9.5 - 11	16-APR-93	Benzo(g,h,i)perylene	76.000	J	.000	ug/kg
SF-SS-19	110369	.5 - 1	22-MAR-93	Benzo(a)anthracene	97.000	J	.000	ug/kg
SF-SS-19	110369	.5 - 1	22-MAR-93	Benzo(a)pyrene	110.000	J	.000	ug/kg
SF-SS-19	110369	.5 - 1	22-MAR-93	Benzo(g,h,i)perylene	79.000	J	.000	ug/kg
SF-SS-19	110369	.5 - 1	22-MAR-93	Chrysene	140.000	J	.000	ug/kg
SF-SS-19	110369	.5 - 1	22-MAR-93	Phenanthrene	80.000	J	.000	ug/kg
SF-SS-19	110369	.5 - 1	22-MAR-93	bis(2-Ethylhexyl) phthalate	88.000	J	.000	ug/kg
SF-SS-19	110369	.5 - 1	22-MAR-93	Pyrene	170.000	J	.000	ug/kg
SF-SS-19	110369	.5 - 1	22-MAR-93	Indeno(1,2,3-cd)pyrene	77.000	J	.000	ug/kg
SF-SS-19	110369	.5 - 1	22-MAR-93	Fluoranthene	210.000	J	.000	ug/kg
SF-SS-19	110369	.5 - 1	22-MAR-93	Benzo(k)fluoranthene	110.000	J	.000	ug/kg
SF-SS-19	110369	.5 - 1	22-MAR-93	Benzo(b)fluoranthene	110.000	J	.000	ug/kg

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TABLE F-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	Background Concentration	UNITS
SEMOVOLATILE ORGANICS (Continued)								
TRENCH #1	113718	2 - 2	03-JUN-93	Anthracene	62.000	J	.000	ug/kg
TRENCH #1	113718	2 - 2	03-JUN-93	Indeno(1,2,3-cd)pyrene	42.000	J	.000	ug/kg
TRENCH #1	113718	2 - 2	03-JUN-93	Fluoranthene	140.000	J	.000	ug/kg
TRENCH #1	113718	2 - 2	03-JUN-93	Di-n-butyl phthalate	49.000	J	.000	ug/kg
TRENCH #1	113718	2 - 2	03-JUN-93	Benzo(k)fluoranthene	58.000	J	.000	ug/kg
TRENCH #1	113718	2 - 2	03-JUN-93	Benzo(g,h,i)perylene	52.000	J	.000	ug/kg
TRENCH #1	113718	2 - 2	03-JUN-93	Benzo(b)fluoranthene	58.000	J	.000	ug/kg
TRENCH #1	113718	2 - 2	03-JUN-93	Benzo(a)anthracene	60.000	J	.000	ug/kg
TRENCH #1	113718	2 - 2	03-JUN-93	Benzo(a)pyrene	59.000	J	.000	ug/kg
TRENCH #1	113718	2 - 2	03-JUN-93	bis(2-Ethylhexyl) phthalate	340.000	J	.000	ug/kg
TRENCH #1	113718	2 - 2	03-JUN-93	Tributyl phosphate	170.000	J	.000	ug/kg
TRENCH #1	113718	2 - 2	03-JUN-93	Pyrene	110.000	J	.000	ug/kg
TRENCH #1	113718	2 - 2	03-JUN-93	Phenanthrene	62.000	J	.000	ug/kg
PESTICIDES/PCBs								
11187	112520	4 - 6	13-APR-93	Aroclor-1254	86.000	J	.000	ug/kg
1965	112737	4 - 6	20-APR-93	Aroclor-1254	43.000	-	.000	ug/kg
1967	112696	4.5 - 7.5	18-APR-93	Aroclor-1254	85.000	-	.000	ug/kg
1968	110396	.5 - 1	22-MAR-93	Dieldrin	16.000	-	.000	ug/kg
1968	110396	.5 - 1	22-MAR-93	Endrin ketone	5.300	J	.000	ug/kg
1968	110396	.5 - 1	22-MAR-93	alpha-Chlordane	8.000	J	.000	ug/kg
1968	110396	.5 - 1	22-MAR-93	gamma-Chlordane	7.200	NJ	.000	ug/kg
1969	110339	.5 - 1	22-MAR-93	Aroclor-1254	54.000	-	.000	ug/kg
1972	110382	.5 - 1	19-MAR-93	Aroclor-1254	85.000	-	.000	ug/kg
1973	110413	.5 - 1	24-MAR-93	Aroclor-1254	82.000	-	.000	ug/kg
1974	110415	.5 - 1	24-MAR-93	Aroclor-1254	58.000	J	.000	ug/kg
1975	110389	.5 - 1	22-MAR-93	Aroclor-1254	140.000	-	.000	ug/kg
1975	112545	4 - 5	13-APR-93	Aroclor-1254	41.000	-	.000	ug/kg
1978	110406	.5 - 1	24-MAR-93	Aroclor-1254	47.000	-	.000	ug/kg
SF-SS-19	110369	.5 - 1	22-MAR-93	Aroclor-1260	89.000	J	.000	ug/kg
TRENCH #1	113718	2 - 2	03-JUN-93	Aroclor-1254	170.000	J	.000	ug/kg
TRENCH 4 SF	113722	0 - 3.42	16-JUN-93	Aroclor-1254	430.000	J	.000	ug/kg

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TABLE F-2D
SOUTH FIELD
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN SURFACE WATER
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	RESULTS	VAL QUAL	BACKGROUND UNITS
METALS								
SF-SW-01	110422	-	24-MAR-93	Aluminum	FLTR	.178	-	0 mg/L
SF-SW-01	110422	-	24-MAR-93	Barium	FLTR	.050	-	0 mg/L
SF-SW-01	110422	-	24-MAR-93	Magnesium	FLTR	30.000	-	0 mg/L
SF-SW-01	110422	-	24-MAR-93	Calcium	FLTR	103.000	-	0 mg/L
SF-SW-01	110422	-	24-MAR-93	Potassium	FLTR	1.270	-	0 mg/L
SF-SW-01	110422	-	24-MAR-93	Sodium	FLTR	4.260	-	0 mg/L
SF-SW-01	110422	-	24-MAR-93	Silicon	FLTR	4.220	-	0 mg/L
SF-SW-02	110432	-	25-MAR-93	Aluminum	FLTR	.183	-	0 mg/L
SF-SW-02	110432	-	25-MAR-93	Barium	FLTR	.054	-	0 mg/L
SF-SW-02	110432	-	25-MAR-93	Magnesium	FLTR	38.200	-	0 mg/L
SF-SW-02	110432	-	25-MAR-93	Potassium	FLTR	1.050	-	0 mg/L
SF-SW-02	110432	-	25-MAR-93	Calcium	FLTR	109.000	-	0 mg/L
SF-SW-02	110432	-	25-MAR-93	Silicon	FLTR	5.840	-	0 mg/L
SF-SW-02	110432	-	25-MAR-93	Sodium	FLTR	5.050	-	0 mg/L
RADIOMUCLIDES								
SF-SW-01	110422	-	24-MAR-93	GROSS ALPHA	UNFL	205.000	-	0 pCi/L
SF-SW-01	110422	-	24-MAR-93	U-235/236	UNFL	7.470	-	0 pCi/L
SF-SW-01	110422	-	24-MAR-93	U-TOTAL	UNFL	340.000	-	0 ug/L
SF-SW-01	110422	-	24-MAR-93	U-238	UNFL	136.000	-	0 pCi/L
SF-SW-01	110422	-	24-MAR-93	U-234	UNFL	110.000	-	0 pCi/L
SF-SW-01	110422	-	24-MAR-93	GROSS BETA	UNFL	97.000	J	0 pCi/L
SF-SW-02	110432	-	25-MAR-93	GROSS ALPHA	UNFL	224.000	-	0 pCi/L
SF-SW-02	110432	-	25-MAR-93	U-234	UNFL	159.000	-	0 pCi/L
SF-SW-02	110432	-	25-MAR-93	GROSS BETA	UNFL	119.000	-	0 pCi/L
SF-SW-02	110432	-	25-MAR-93	U-TOTAL	UNFL	487.000	-	0 ug/L
SF-SW-02	110432	-	25-MAR-93	U-238	UNFL	174.000	-	0 pCi/L
SF-SW-02	110432	-	25-MAR-93	U-235/236	UNFL	7.400	-	0 pCi/L
GENERAL CHEMISTRY								
SF-SW-01	110422	-	24-MAR-93	Chloride	UNFL	3.700	-	0 mg/L
SF-SW-01	110422	-	24-MAR-93	Fluoride	UNFL	.400	-	0 mg/L
SF-SW-01	110422	-	24-MAR-93	Phosphorus	UNFL	.070	-	0 mg/L

See footnotes at end of table

TABLE F-2D
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	RESULTS	VAL QUAL	BACKGROUND	UNITS
<u>GENERAL CHEMISTRY (Continued)</u>									
SF-SW-01	110422	-	24-MAR-93	Sulfate	UNFL	71.740	-	0	mg/L
SF-SW-01	110422	-	24-MAR-93	Total Organic Carbon	UNFL	3.440	-	0	mg/L
SF-SW-01	110422	-	24-MAR-93	Total Kjeldahl Nitrogen	UNFL	.350	-	0	mg/L
SF-SW-01	110422	-	24-MAR-93	Total Organic Nitrogen	UNFL	.350	-	0	mg/L
SF-SW-02	110432	-	25-MAR-93	Chloride	UNFL	4.400	-	0	mg/L
SF-SW-02	110432	-	25-MAR-93	Fluoride	UNFL	.360	-	0	mg/L
SF-SW-02	110432	-	25-MAR-93	Sulfate	UNFL	87.610	-	0	mg/L
SF-SW-02	110432	-	25-MAR-93	Total Kjeldahl Nitrogen	UNFL	.220	-	0	mg/L
SF-SW-02	110432	-	25-MAR-93	Total Organic Carbon	UNFL	2.440	-	0	mg/L
SF-SW-02	110432	-	25-MAR-93	Total Organic Nitrogen	UNFL	.220	-	0	mg/L

^aZero background concentration has been used for surface water. Background data for surface water is not available at this time.

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

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FEMP-OU02-6 FINAL
January 21, 1995

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TABLE F-2E
SOUTH FIELD
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND IN SEDIMENT
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL	QUAL	BACKGROUND UNITS
METALS								
SF-SD-01	110425	-	24-MAR-93	Calcium	22400.000 J	5296.781	mg/kg	
SF-SD-01	110425	-	24-MAR-93	Magnesium	6460.000 -	1460	mg/kg	
SF-SD-01	110425	-	24-MAR-93	Silver	2.900 -	0	mg/kg	
SF-SD-01	110425	-	24-MAR-93	Sodium	67.100 -	55.145	mg/kg	
SF-SD-01	110425	-	24-MAR-93	Selenium	.860 -	.72	mg/kg	
SF-SD-02	110430	-	25-MAR-93	Barium	109.000 -	88.5	mg/kg	
SF-SD-02	110430	-	25-MAR-93	Beryllium	1.100 -	.6	mg/kg	
SF-SD-02	110430	-	25-MAR-93	Calcium	83500.000 J	5296.781	mg/kg	
SF-SD-02	110430	-	25-MAR-93	Copper	25.400 -	15.7	mg/kg	
SF-SD-02	110430	-	25-MAR-93	Molybdenum	6.300 J	0	mg/kg	
SF-SD-02	110430	-	25-MAR-93	Zinc	68.700 J	58.5	mg/kg	
SF-SD-02	110430	-	25-MAR-93	Sodium	155.000 -	55.145	mg/kg	
SF-SD-02	110430	-	25-MAR-93	Silver	6.500 -	0	mg/kg	
SF-SD-02	110430	-	25-MAR-93	Potassium	1460.000 -	1349.53	mg/kg	
SF-SD-02	110430	-	25-MAR-93	Nickel	26.400 -	25.145	mg/kg	
SF-SD-02	110430	-	25-MAR-93	Magnesium	20200.000 -	1460	mg/kg	
SF-SD-02	110430	-	25-MAR-93	Lead	50.800 -	29.575	mg/kg	
SF-SD-03	110428	-	25-MAR-93	Arsenic	75.600 -	11.608	mg/kg	
SF-SD-03	110428	-	25-MAR-93	Chromium	19.200 -	17.057	mg/kg	
SF-SD-03	110428	-	25-MAR-93	Copper	122.000 -	15.7	mg/kg	
SF-SD-03	110428	-	25-MAR-93	Cobalt	19.400 -	16.913	mg/kg	
SF-SD-03	110428	-	25-MAR-93	Cyanide	.540 -	.23	mg/kg	
SF-SD-03	110428	-	25-MAR-93	Zinc	118.000 J	58.5	mg/kg	
SF-SD-03	110428	-	25-MAR-93	Vanadium	53.600 -	33.693	mg/kg	
SF-SD-03	110428	-	25-MAR-93	Thallium	4.400 -	.58	mg/kg	
SF-SD-03	110428	-	25-MAR-93	Sodium	237.000 -	55.145	mg/kg	
SF-SD-03	110428	-	25-MAR-93	Selenium	5.900 -	.72	mg/kg	
SF-SD-03	110428	-	25-MAR-93	Potassium	1920.000 -	1349.53	mg/kg	
SF-SD-03	110428	-	25-MAR-93	Nickel	36.400 -	25.145	mg/kg	
SF-SD-03	110428	-	25-MAR-93	Magnesium	4510.000 -	1460	mg/kg	
SF-SD-03	110428	-	25-MAR-93	Lead	91.500 -	29.575	mg/kg	
SF-SD-03	110428	-	25-MAR-93	Calcium	19300.000 J	5296.781	mg/kg	
SF-SD-03	110428	-	25-MAR-93	Barium	212.000 -	88.5	mg/kg	
SF-SD-03	110428	-	25-MAR-93	Beryllium	4.600 -	.6	mg/kg	

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TABLE F-2E
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND	UNITS
<u>RADIOMUCLIDES</u>								
SF-SD-01	110425	-	24-MAR-93	GROSS ALPHA	29.100	-	0	pCi/g
SF-SD-01	110425	-	24-MAR-93	GROSS BETA	58.200	J	0	pCi/g
SF-SD-01	110425	-	24-MAR-93	U-TOTAL	15.200	-	3.24	mg/kg
SF-SD-01	110425	-	24-MAR-93	U-238	5.210	-	1.27	pCi/g
SF-SD-01	110425	-	24-MAR-93	U-235/236	.255	J	.181	pCi/g
SF-SD-01	110425	-	24-MAR-93	U-234	3.620	-	1.319	pCi/g
SF-SD-01	110425	-	24-MAR-93	SR-90	.546	J	0	pCi/g
SF-SD-01	110425	-	24-MAR-93	RA-228	1.240	-	1.17	pCi/g
SF-SD-01	110425	-	24-MAR-93	RA-226	1.680	-	1.528	pCi/g
SF-SD-01	110425	-	24-MAR-93	PU-239/240	.067	J	0	pCi/g
SF-SD-01	110425	-	24-MAR-93	PU-238	.057	J	0	pCi/g
SF-SD-01	110425	-	24-MAR-93	NP-237	.323	N	0	pCi/g
SF-SD-02	110430	-	25-MAR-93	GROSS ALPHA	33.500	-	0	pCi/g
SF-SD-02	110430	-	25-MAR-93	PU-238	.100	J	0	pCi/g
SF-SD-02	110430	-	25-MAR-93	NP-237	.280	N	0	pCi/g
SF-SD-02	110430	-	25-MAR-93	TH-230	8.960	-	2.112	pCi/g
SF-SD-02	110430	-	25-MAR-93	U-238	6.210	-	1.27	pCi/g
SF-SD-02	110430	-	25-MAR-93	U-TOTAL	20.000	J	3.24	mg/kg
SF-SD-02	110430	-	25-MAR-93	U-235/236	.290	J	.181	pCi/g
SF-SD-02	110430	-	25-MAR-93	U-234	5.130	-	1.319	pCi/g
SF-SD-02	110430	-	25-MAR-93	RA-226	1.570	-	1.528	pCi/g
SF-SD-02	110430	-	25-MAR-93	GROSS BETA	32.600	-	0	pCi/g
SF-SD-03	110428	-	25-MAR-93	GROSS ALPHA	61.400	-	0	pCi/g
SF-SD-03	110428	-	25-MAR-93	U-TOTAL	30.100	J	3.24	mg/kg
SF-SD-03	110428	-	25-MAR-93	U-238	8.750	-	1.27	pCi/g
SF-SD-03	110428	-	25-MAR-93	U-235/236	.410	J	.181	pCi/g
SF-SD-03	110428	-	25-MAR-93	U-234	7.950	-	1.319	pCi/g
SF-SD-03	110428	-	25-MAR-93	TH-TOTAL	23.400	-	10.7	mg/kg
SF-SD-03	110428	-	25-MAR-93	TH-232	2.570	-	1.469	pCi/g
SF-SD-03	110428	-	25-MAR-93	TH-230	4.910	-	2.112	pCi/g
SF-SD-03	110428	-	25-MAR-93	TH-228	2.800	-	1.519	pCi/g
SF-SD-03	110428	-	25-MAR-93	SR-90	1.010	J	0	pCi/g
SF-SD-03	110428	-	25-MAR-93	RA-228	2.530	-	1.17	pCi/g
SF-SD-03	110428	-	25-MAR-93	RA-226	2.960	-	1.528	pCi/g
SF-SD-03	110428	-	25-MAR-93	PU-238	1.900	-	0	pCi/g
SF-SD-03	110428	-	25-MAR-93	NP-237	.420	N	0	pCi/g
SF-SD-03	110428	-	25-MAR-93	GROSS BETA	36.200	-	0	pCi/g
SF-SD-03	110428	-	25-MAR-93	PU-239/240	.370	J	0	pCi/g
<u>VOLATILE ORGANICS</u>								
SF-SD-03	110428	-	25-MAR-93	Toluene	8.000	J	0	ug/kg

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000506

TABLE F-2E
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND	UNITS
SEMIVOLATILE ORGANICS								
SF-SD-01	110425	-	24-MAR-93	Chrysene	87.000	J	0	ug/kg
SF-SD-01	110425	-	24-MAR-93	bis(2-Ethylhexyl) phthalate	74.000	J	0	ug/kg
SF-SD-01	110425	-	24-MAR-93	Fluoranthene	130.000	J	0	ug/kg
SF-SD-01	110425	-	24-MAR-93	Phenanthrene	63.000	J	0	ug/kg
SF-SD-01	110425	-	24-MAR-93	Pyrene	110.000	J	0	ug/kg
SF-SD-02	110430	-	25-MAR-93	Benzo(a)anthracene	66.000	J	0	ug/kg
SF-SD-02	110430	-	25-MAR-93	Benzo(g,h,i)perylene	120.000	J	0	ug/kg
SF-SD-02	110430	-	25-MAR-93	bis(2-Ethylhexyl) phthalate	120.000	J	0	ug/kg
SF-SD-02	110430	-	25-MAR-93	Pyrene	110.000	J	0	ug/kg
SF-SD-02	110430	-	25-MAR-93	Phenol	56.000	J	0	ug/kg
SF-SD-02	110430	-	25-MAR-93	Indeno(1,2,3-cd)pyrene	99.000	J	0	ug/kg
SF-SD-02	110430	-	25-MAR-93	Fluoranthene	120.000	J	0	ug/kg
SF-SD-02	110430	-	25-MAR-93	Chrysene	110.000	J	0	ug/kg
SF-SD-02	110430	-	25-MAR-93	Benzo(k)fluoranthene	120.000	J	0	ug/kg
SF-SD-02	110430	-	25-MAR-93	Benzoic acid	160.000	J	0	ug/kg
SF-SD-02	110430	-	25-MAR-93	Benzo(b)fluoranthene	110.000	J	0	ug/kg
SF-SD-02	110430	-	25-MAR-93	Benzo(a)pyrene	110.000	J	0	ug/kg
SF-SD-03	110428	-	25-MAR-93	Benzo(k)fluoranthene	74.000	J	0	ug/kg
SF-SD-03	110428	-	25-MAR-93	Benzoic acid	99.000	J	0	ug/kg
SF-SD-03	110428	-	25-MAR-93	Chrysene	67.000	J	0	ug/kg
SF-SD-03	110428	-	25-MAR-93	bis(2-Ethylhexyl) phthalate	130.000	J	0	ug/kg
SF-SD-03	110428	-	25-MAR-93	Pyrene	71.000	J	0	ug/kg
SF-SD-03	110428	-	25-MAR-93	Fluoranthene	74.000	J	0	ug/kg
PESTICIDES/PCBs								
SF-SD-02	110430	-	25-MAR-93	Aroclor-1254	96.000	-	0	ug/kg

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TABLE F-2F
SOUTH FIELD
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN GROUNDWATER - 1000 SERIES
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
METALS								
1046	003089	-	13-APR-88	Manganese	FLTR	.167	-	.165 mg/L
1046	003649	-	23-OCT-88	Selenium	FLTR	.002	J	0 mg/L
1046	003854	-	22-JAN-89	Cadmium	FLTR	.008	-	.007 mg/L
1433	047040	-	16-NOV-92	Calcium	FLTR	129.000	-	125.574 mg/L
1433	047040	-	16-NOV-92	Copper	FLTR	.031	-	.03 mg/L
1433	047040	-	16-NOV-92	Silicon	FLTR	10.500	-	0 mg/L
1433	047044	-	30-NOV-92	Calcium	*U	127.000	-	125.574 mg/L
1433	047044	-	30-NOV-92	Silicon	*U	10.200	-	0 mg/L
RADIOMUCLIDES								
1046	003089	-	13-APR-88	TH-228	*U	1.100	J	1.04 pCi/L
1046	003089	-	13-APR-88	U-234	*U	62.500	-	1.9 pCi/L
1046	003089	-	13-APR-88	U-235/236	*U	3.800	-	0 pCi/L
1046	003089	-	13-APR-88	U-238	*U	79.700	-	1.07 pCi/L
1046	003089	-	13-APR-88	U-TOTAL	*U	203.000	-	4 ug/L
1046	003370	-	24-JUL-88	U-234	*U	2.800	J	1.9 pCi/L
1046	003370	-	24-JUL-88	U-238	*U	2.000	J	1.07 pCi/L
1046	003370	-	24-JUL-88	U-TOTAL	*U	6.000	-	4 ug/L
1046	003649	-	23-OCT-88	U-234	*U	2.000	J	1.9 pCi/L
1046	003649	-	23-OCT-88	U-238	*U	2.300	J	1.07 pCi/L
1046	003649	-	23-OCT-88	U-TOTAL	*U	6.000	-	4 ug/L
1046	003854	-	22-JAN-89	U-234	*U	2.400	-	1.9 pCi/L
1046	003854	-	22-JAN-89	U-238	*U	1.900	-	1.07 pCi/L
1046	003854	-	22-JAN-89	U-TOTAL	*U	6.000	-	4 ug/L
1046	066829	-	12-DEC-89	TH-228	UNKN	1.470	J	1.04 pCi/L
1046	066829	-	12-DEC-89	U-234	UNKN	2.960	-	1.9 pCi/L
1046	066829	-	12-DEC-89	U-238	UNKN	1.940	-	1.07 pCi/L
1046	066829	-	12-DEC-89	U-TOTAL	UNKN	8.360	-	4 ug/L
1065	066834	-	13-DEC-89	U-TOTAL	UNKN	5.330	-	4 ug/L
1433	047040	-	16-NOV-92	GROSS ALPHA	UNKN	2619.000	-	0 pCi/L
1433	047040	-	16-NOV-92	GROSS BETA	UNKN	1286.000	-	0 pCi/L
1433	047040	-	16-NOV-92	TH-232	UNKN	.370	J	0 pCi/L
1433	047040	-	16-NOV-92	TH-TOTAL	UNKN	3.400	J	3 ug/L

See footnotes at end of table

TABLE F-2F
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	BACKGROUND	UNITS
RADIONUCLIDES (Continued)									
1433	047040	-	16-NOV-92	U-234	UNKN	1530.000	J	1.9	pCi/L
1433	047040	-	16-NOV-92	U-238	UNKN	1537.000	J	1.07	pCi/L
1433	047040	-	16-NOV-92	U-TOTAL	UNKN	3969.000	-	4	ug/L
1433	047044	-	30-NOV-92	GROSS ALPHA	*U	372.000	J	0	pCi/L
1433	047044	-	30-NOV-92	GROSS BETA	*U	129.000	-	0	pCi/L
1433	047048	-	02-DEC-92	GROSS BETA	UNKN	739.000	-	0	pCi/L
1433	047048	-	02-DEC-92	NP-237	UNKN	.420	N	0	pCi/L
1433	047048	-	02-DEC-92	U-234	UNKN	723.000	J	1.9	pCi/L
1433	047048	-	02-DEC-92	U-235/236	UNKN	31.900	J	0	pCi/L
1433	047048	-	02-DEC-92	U-238	UNKN	731.000	J	1.07	pCi/L
1433	047048	-	02-DEC-92	U-TOTAL	UNKN	3390.000	-	4	ug/L
GENERAL CHEMISTRY									
1046	003649	-	23-OCT-88	Phosphorus	UNFL	.880	-	.223	mg/L
1046	003649	-	23-OCT-88	Total Organic Nitrogen	UNFL	.500	-	0	mg/L
1046	003854	-	22-JAN-89	Phosphorus	UNFL	.400	-	.223	mg/L
1046	003854	-	22-JAN-89	Total Kjeldahl Nitrogen	UNFL	.200	-	0	mg/L
1046	003854	-	22-JAN-89	Total Organic Nitrogen	UNFL	.200	-	0	mg/L
1065	003136	-	14-APR-88	Total Organic Nitrogen	UNFL	.100	-	0	mg/L
1433	047040	-	16-NOV-92	Phosphorus	*U	.340	J	.223	mg/L
1433	047040	-	16-NOV-92	Total Organic Carbon	*U	4.400	-	0	mg/L
1433	047040	-	16-NOV-92	Total Organic Halides	*U	.014	-	0	mg/L
1433	047040	-	16-NOV-92	Total Organic Nitrogen	*U	.288	-	0	mg/L
1433	047044	-	30-NOV-92	Fluoride	*U	1.420	-	1.352	mg/L
1433	047044	-	30-NOV-92	Phosphorus	*U	.360	-	.223	mg/L
1433	047044	-	30-NOV-92	Total Organic Carbon	*U	3.580	-	0	mg/L
1433	047044	-	30-NOV-92	Total Organic Nitrogen	*U	.143	-	0	mg/L

^aBackground concentrations established for metals are filtered while all other background parameters are unfiltered.

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

UNKN = Unknown; filtered status could not be determined.

*U = Unfiltered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.

TABLE F-2G
SOUTH FIELD
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN GROUNDWATER - 1000 SERIES
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
METALS								
1046	116231	-	11-MAY-93	Aluminum	UNFL	2.410	-	.123 mg/L
1046	116231	-	11-MAY-93	Manganese	UNFL	.169	-	.165 mg/L
1046	116231	-	11-MAY-93	Silicon	UNFL	9.140	-	0 mg/L
1065	112013	-	04-MAY-93	Aluminum	UNFL	.774	-	.123 mg/L
1065	112013	-	04-MAY-93	Cadmium	UNFL	.034	-	.007 mg/L
1065	112013	-	04-MAY-93	Silicon	UNFL	6.610	-	0 mg/L
1065	112013	-	04-MAY-93	Zinc	UNFL	.122	-	.0317 mg/L
1065	112014	-	04-MAY-93	Antimony	FLTR	.014	J	0 mg/L
1065	112014	-	04-MAY-93	Silicon	FLTR	5.670	-	0 mg/L
1065	112014	-	04-MAY-93	Zinc	FLTR	.037	-	.0317 mg/L
11032	113869	-	30-JUN-93	Aluminum	FLTR	.435	-	.123 mg/L
11032	113869	-	30-JUN-93	Aluminum	UNFL	130.000	-	.123 mg/L
11032	113869	-	30-JUN-93	Antimony	FLTR	.006	J	0 mg/L
11032	113869	-	30-JUN-93	Barium	UNFL	1.050	-	.459 mg/L
11032	113869	-	30-JUN-93	Beryllium	UNFL	.006	-	.0018 mg/L
11032	113869	-	30-JUN-93	Calcium	UNFL	1360.000	-	125.574 mg/L
11032	113869	-	30-JUN-93	Chromium	UNFL	.167	J	.0345 mg/L
11032	113869	-	30-JUN-93	Cobalt	UNFL	.069	-	0 mg/L
11032	113869	-	30-JUN-93	Copper	UNFL	.246	-	.03 mg/L
11032	113869	-	30-JUN-93	Iron	UNFL	265.000	-	10.965 mg/L
11032	113869	-	30-JUN-93	Lead	UNFL	.084	-	.05 mg/L
11032	113869	-	30-JUN-93	Magnesium	FLTR	57.400	-	49.627 mg/L
11032	113869	-	30-JUN-93	Magnesium	UNFL	413.000	-	49.627 mg/L
11032	113869	-	30-JUN-93	Manganese	FLTR	.274	-	.165 mg/L
11032	113869	-	30-JUN-93	Manganese	UNFL	4.920	-	.165 mg/L
11032	113869	-	30-JUN-93	Molybdenum	UNFL	.050	-	.028 mg/L
11032	113869	-	30-JUN-93	Nickel	UNFL	.243	-	.026 mg/L
11032	113869	-	30-JUN-93	Silicon	FLTR	8.200	-	0 mg/L
11032	113869	-	30-JUN-93	Silicon	UNFL	83.400	-	0 mg/L
11032	113869	-	30-JUN-93	Silver	UNFL	.061	-	.04 mg/L
11032	113869	-	30-JUN-93	Vanadium	UNFL	.319	J	.0195 mg/L
11032	113869	-	30-JUN-93	Zinc	UNFL	.654	-	.0317 mg/L

See footnotes at end of table

TABLE F-2G
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	QUAL	BACKGROUND	UNITS
METALS (Continued)									
11085	113792	-	16-JUN-93	Aluminum	UNFL	184.000	-	.123	mg/L
11085	113792	-	16-JUN-93	Antimony	FLTR	.007	-	0	mg/L
11085	113792	-	16-JUN-93	Barium	UNFL	1.140	-	.459	mg/L
11085	113792	-	16-JUN-93	Beryllium	UNFL	.010	-	.0018	mg/L
11085	113792	-	16-JUN-93	Calcium	UNFL	1190.000	-	125.574	mg/L
11085	113792	-	16-JUN-93	Chromium	UNFL	.196	-	.0345	mg/L
11085	113792	-	16-JUN-93	Cobalt	UNFL	.116	-	0	mg/L
11085	113792	-	16-JUN-93	Copper	UNFL	.332	-	.03	mg/L
11085	113792	-	16-JUN-93	Iron	UNFL	370.000	-	10.965	mg/L
11085	113792	-	16-JUN-93	Lead	UNFL	.099	-	.05	mg/L
11085	113792	-	16-JUN-93	Magnesium	UNFL	384.000	-	49.627	mg/L
11085	113792	-	16-JUN-93	Manganese	UNFL	6.490	-	.165	mg/L
11085	113792	-	16-JUN-93	Molybdenum	UNFL	.108	-	.028	mg/L
11085	113792	-	16-JUN-93	Nickel	UNFL	.339	-	.026	mg/L
11085	113792	-	16-JUN-93	Silicon	FLTR	7.450	-	0	mg/L
11085	113792	-	16-JUN-93	Silicon	UNFL	78.600	-	0	mg/L
11085	113792	-	16-JUN-93	Silver	UNFL	.089	-	.04	mg/L
11085	113792	-	16-JUN-93	Vanadium	UNFL	.376	-	.0195	mg/L
11085	113792	-	16-JUN-93	Zinc	UNFL	.940	-	.0317	mg/L
1941	112997	-	30-APR-93	Antimony	UNFL	.013	J	0	mg/L
1941	112997	-	30-APR-93	Cyanide	UNFL	.002	-	0	mg/L
1941	112997	-	30-APR-93	Magnesium	UNFL	60.700	-	49.627	mg/L
1941	112997	-	30-APR-93	Selenium	UNFL	.004	-	0	mg/L
1941	112997	-	30-APR-93	Silicon	UNFL	8.030	-	0	mg/L
1941	113316	-	28-MAY-93	Aluminum	UNFL	86.100	-	.123	mg/L
1941	113316	-	28-MAY-93	Antimony	UNFL	.006	J	0	mg/L
1941	113316	-	28-MAY-93	Barium	UNFL	.565	-	.459	mg/L
1941	113316	-	28-MAY-93	Beryllium	UNFL	.004	-	.0018	mg/L
1941	113316	-	28-MAY-93	Calcium	UNFL	610.000	-	125.574	mg/L
1941	113316	-	28-MAY-93	Chromium	UNFL	.090	J	.0345	mg/L
1941	113316	-	28-MAY-93	Cobalt	UNFL	.033	-	0	mg/L
1941	113316	-	28-MAY-93	Copper	UNFL	.120	-	.03	mg/L
1941	113316	-	28-MAY-93	Iron	UNFL	131.000	-	10.965	mg/L
1941	113316	-	28-MAY-93	Magnesium	UNFL	250.000	-	49.627	mg/L
1941	113316	-	28-MAY-93	Manganese	UNFL	2.240	-	.165	mg/L
1941	113316	-	28-MAY-93	Molybdenum	UNFL	.044	-	.028	mg/L
1941	113316	-	28-MAY-93	Nickel	UNFL	.136	J	.026	mg/L
1941	113316	-	28-MAY-93	Selenium	UNFL	.004	J	0	mg/L
1941	113316	-	28-MAY-93	Silicon	UNFL	102.000	J	0	mg/L

See footnotes at end of table

TABLE F-2G
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	QUAL	BACKGROUND	UNITS
METALS (Continued)									
1941	113316	-	28-MAY-93	Vanadium	UNFL	.205	-	.0195	mg/L
1941	113316	-	28-MAY-93	Zinc	UNFL	.330	J	.0317	mg/L
1942	113000	-	01-MAY-93	Calcium	UNFL	143.000	-	125.574	mg/L
1942	113000	-	01-MAY-93	Cyanide	UNFL	.002	-	0	mg/L
1942	113000	-	01-MAY-93	Magnesium	UNFL	60.900	-	49.627	mg/L
1942	113000	-	01-MAY-93	Manganese	UNFL	.943	-	.165	mg/L
1942	113000	-	01-MAY-93	Nickel	UNFL	.068	-	.026	mg/L
1942	113000	-	01-MAY-93	Silicon	UNFL	6.580	-	0	mg/L
1942	113319	-	28-MAY-93	Aluminum	UNFL	53.000	-	.123	mg/L
1942	113319	-	28-MAY-93	Calcium	UNFL	390.000	-	125.574	mg/L
1942	113319	-	28-MAY-93	Chromium	UNFL	.056	J	.0345	mg/L
1942	113319	-	28-MAY-93	Cobalt	UNFL	.026	-	0	mg/L
1942	113319	-	28-MAY-93	Copper	UNFL	.076	-	.03	mg/L
1942	113319	-	28-MAY-93	Iron	UNFL	82.400	-	10.965	mg/L
1942	113319	-	28-MAY-93	Magnesium	UNFL	145.000	-	49.627	mg/L
1942	113319	-	28-MAY-93	Manganese	UNFL	2.310	-	.165	mg/L
1942	113319	-	28-MAY-93	Molybdenum	UNFL	.031	-	.028	mg/L
1942	113319	-	28-MAY-93	Nickel	UNFL	.116	J	.026	mg/L
1942	113319	-	28-MAY-93	Silicon	UNFL	74.600	J	0	mg/L
1942	113319	-	28-MAY-93	Vanadium	UNFL	.120	-	.0195	mg/L
1942	113319	-	28-MAY-93	Zinc	UNFL	.221	J	.0317	mg/L
1954	113798	-	22-JUN-93	Aluminum	UNFL	49.000	-	.123	mg/L
1954	113798	-	22-JUN-93	Antimony	FLTR	.012	-	0	mg/L
1954	113798	-	22-JUN-93	Calcium	FLTR	161.000	-	125.574	mg/L
1954	113798	-	22-JUN-93	Calcium	UNFL	381.000	-	125.574	mg/L
1954	113798	-	22-JUN-93	Chromium	UNFL	.047	-	.0345	mg/L
1954	113798	-	22-JUN-93	Cobalt	UNFL	.025	-	0	mg/L
1954	113798	-	22-JUN-93	Copper	UNFL	.062	-	.03	mg/L
1954	113798	-	22-JUN-93	Iron	UNFL	70.300	-	10.965	mg/L
1954	113798	-	22-JUN-93	Magnesium	FLTR	72.700	-	49.627	mg/L
1954	113798	-	22-JUN-93	Magnesium	UNFL	147.000	-	49.627	mg/L
1954	113798	-	22-JUN-93	Manganese	FLTR	1.500	-	.165	mg/L
1954	113798	-	22-JUN-93	Manganese	UNFL	2.370	-	.165	mg/L
1954	113798	-	22-JUN-93	Molybdenum	UNFL	.032	-	.028	mg/L
1954	113798	-	22-JUN-93	Nickel	UNFL	.127	-	.026	mg/L
1954	113798	-	22-JUN-93	Silicon	FLTR	7.890	-	0	mg/L
1954	113798	-	22-JUN-93	Silicon	UNFL	77.200	-	0	mg/L
1954	113798	-	22-JUN-93	Vanadium	UNFL	.103	-	.0195	mg/L
1954	113798	-	22-JUN-93	Zinc	UNFL	.181	-	.0317	mg/L

See footnotes at end of table

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TABLE F-2G
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
RADIONUCLIDES								
1046	116231	-	11-MAY-93	GROSS BETA	UNFL	8.810 J	0	pCi/L
1046	116231	-	11-MAY-93	NP-237	UNFL	.480 N	0	pCi/L
1046	116231	-	11-MAY-93	U-234	UNFL	7.830 -	1.9	pCi/L
1046	116231	-	11-MAY-93	U-235/236	UNFL	.479 J	0	pCi/L
1046	116231	-	11-MAY-93	U-238	UNFL	7.910 -	1.07	pCi/L
1046	116231	-	11-MAY-93	U-TOTAL	UNFL	18.900 -	4	ug/L
1065	112013	-	04-MAY-93	NP-237	UNFL	.220 N	0	pCi/L
1065	112013	-	04-MAY-93	PU-238	UNFL	.090 J	0	pCi/L
1065	112014	-	04-MAY-93	NP-237	UNFL	.300 N	0	pCi/L
1065	112014	-	04-MAY-93	U-234	UNFL	20.300 -	1.9	pCi/L
11032	113869	-	30-JUN-93	GROSS BETA	FLTR	6.640 J	0	pCi/L
11032	113869	-	30-JUN-93	GROSS BETA	UNFL	67.500 J	0	pCi/L
11032	113869	-	30-JUN-93	PU-238	UNFL	.190 J	0	pCi/L
11032	113869	-	30-JUN-93	SR-90	FLTR	1.330 J	0	pCi/L
11032	113869	-	30-JUN-93	U-234	FLTR	2.620 -	1.9	pCi/L
11032	113869	-	30-JUN-93	U-234	UNFL	8.720 -	1.9	pCi/L
11032	113869	-	30-JUN-93	U-235/236	FLTR	.120 -	0	pCi/L
11032	113869	-	30-JUN-93	U-235/236	UNFL	.340 -	0	pCi/L
11032	113869	-	30-JUN-93	U-238	FLTR	2.430 -	1.07	pCi/L
11032	113869	-	30-JUN-93	U-238	UNFL	8.870 -	1.07	pCi/L
11032	113869	-	30-JUN-93	U-TOTAL	FLTR	6.140 J	4	ug/L
11032	113869	-	30-JUN-93	U-TOTAL	UNFL	22.600 J	4	ug/L
11085	113792	-	16-JUN-93	GROSS ALPHA	FLTR	12.100 J	0	pCi/L
11085	113792	-	16-JUN-93	GROSS ALPHA	UNFL	198.000 J	0	pCi/L
11085	113792	-	16-JUN-93	GROSS BETA	UNFL	426.000 J	0	pCi/L
11085	113792	-	16-JUN-93	NP-237	FLTR	.590 N	0	pCi/L
11085	113792	-	16-JUN-93	PU-238	FLTR	.385 J	0	pCi/L
11085	113792	-	16-JUN-93	PU-238	UNFL	.311 J	0	pCi/L
11085	113792	-	16-JUN-93	PU-239/240	FLTR	.204 J	0	pCi/L
11085	113792	-	16-JUN-93	PU-239/240	UNFL	.120 J	0	pCi/L
11085	113792	-	16-JUN-93	RA-226	UNFL	1.360 J	1	pCi/L
11085	113792	-	16-JUN-93	TH-228	UNFL	9.870 -	1.04	pCi/L
11085	113792	-	16-JUN-93	TH-230	FLTR	2.360 J	2	pCi/L
11085	113792	-	16-JUN-93	TH-230	UNFL	11.200 -	2	pCi/L
11085	113792	-	16-JUN-93	TH-232	FLTR	.216 J	0	pCi/L
11085	113792	-	16-JUN-93	TH-232	UNFL	8.560 -	0	pCi/L
11085	113792	-	16-JUN-93	TH-TOTAL	UNFL	78.000 -	3	ug/L
11085	113792	-	16-JUN-93	U-234	UNFL	7.460 -	1.9	pCi/L
11085	113792	-	16-JUN-93	U-235/236	UNFL	.303 J	0	pCi/L

See footnotes at end of table

TABLE F-2G
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)								
11085	113792	-	16-JUN-93	U-238	FLTR	1.430	-	1.07 pCi/L
11085	113792	-	16-JUN-93	U-238	UNFL	7.090	-	1.07 pCi/L
11085	113792	-	16-JUN-93	U-TOTAL	FLTR	4.330	-	4 ug/L
11085	113792	-	16-JUN-93	U-TOTAL	UNFL	13.700	-	4 ug/L
1941	112997	-	30-APR-93	GROSS ALPHA	UNFL	314.000	J	0 pCi/L
1941	112997	-	30-APR-93	GROSS BETA	UNFL	123.000	J	0 pCi/L
1941	112997	-	30-APR-93	SR-90	UNFL	3.310	J	0 pCi/L
1941	112997	-	30-APR-93	U-234	UNFL	216.000	-	1.9 pCi/L
1941	112997	-	30-APR-93	U-235/236	UNFL	10.700	-	0 pCi/L
1941	112997	-	30-APR-93	U-238	UNFL	220.000	-	1.07 pCi/L
1941	112997	-	30-APR-93	U-TOTAL	UNFL	547.000	-	4 ug/L
1941	113316	-	28-MAY-93	GROSS ALPHA	UNFL	609.000	J	0 pCi/L
1941	113316	-	28-MAY-93	GROSS BETA	UNFL	314.000	-	0 pCi/L
1941	113316	-	28-MAY-93	RA-226	UNFL	1.050	J	1 pCi/L
1941	113316	-	28-MAY-93	TH-228	UNFL	3.870	-	1.04 pCi/L
1941	113316	-	28-MAY-93	TH-230	UNFL	6.800	-	2 pCi/L
1941	113316	-	28-MAY-93	TH-232	UNFL	3.750	-	0 pCi/L
1941	113316	-	28-MAY-93	TH-TOTAL	UNFL	34.200	-	3 ug/L
1941	113316	-	28-MAY-93	U-234	UNFL	166.000	-	1.9 pCi/L
1941	113316	-	28-MAY-93	U-235/236	UNFL	8.480	-	0 pCi/L
1941	113316	-	28-MAY-93	U-238	UNFL	176.000	-	1.07 pCi/L
1941	113316	-	28-MAY-93	U-TOTAL	UNFL	388.000	-	4 ug/L
1942	113000	-	01-MAY-93	GROSS ALPHA	UNFL	220.000	J	0 pCi/L
1942	113000	-	01-MAY-93	GROSS BETA	UNFL	66.900	J	0 pCi/L
1942	113000	-	01-MAY-93	NP-237	UNFL	.395	N	0 pCi/L
1942	113000	-	01-MAY-93	PU-238	UNFL	.560	J	0 pCi/L
1942	113000	-	01-MAY-93	SR-90	UNFL	3.050	J	0 pCi/L
1942	113000	-	01-MAY-93	U-234	UNFL	123.000	-	1.9 pCi/L
1942	113000	-	01-MAY-93	U-235/236	UNFL	6.230	-	0 pCi/L
1942	113000	-	01-MAY-93	U-238	UNFL	125.000	-	1.07 pCi/L
1942	113000	-	01-MAY-93	U-TOTAL	UNFL	340.000	-	4 ug/L
1942	113319	-	28-MAY-93	GROSS ALPHA	UNFL	1080.000	J	0 pCi/L
1942	113319	-	28-MAY-93	GROSS BETA	UNFL	638.000	-	0 pCi/L
1942	113319	-	28-MAY-93	TH-228	UNFL	2.210	-	1.04 pCi/L
1942	113319	-	28-MAY-93	TH-230	UNFL	3.900	-	2 pCi/L
1942	113319	-	28-MAY-93	TH-232	UNFL	1.770	-	0 pCi/L
1942	113319	-	28-MAY-93	TH-TOTAL	UNFL	16.200	J	3 ug/L
1942	113319	-	28-MAY-93	U-234	UNFL	223.000	-	1.9 pCi/L
1942	113319	-	28-MAY-93	U-235/236	UNFL	15.700	-	0 pCi/L

See footnotes at end of table

TABLE F-2G
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	QUAL	BACKGROUND	UNITS
RADIONUCLIDES (Continued)									
1942	113319	-	28-MAY-93	U-238	UNFL	229.000	-	1.07	pCi/L
1942	113319	-	28-MAY-93	U-TOTAL	UNFL	573.000	-	4	ug/L
1954	113798	-	22-JUN-93	GROSS ALPHA	FLTR	61.000	J	0	pCi/L
1954	113798	-	22-JUN-93	GROSS ALPHA	UNFL	38.000	J	0	pCi/L
1954	113798	-	22-JUN-93	GROSS BETA	FLTR	18.300	J	0	pCi/L
1954	113798	-	22-JUN-93	GROSS BETA	UNFL	41.000	J	0	pCi/L
1954	113798	-	22-JUN-93	PU-239/240	UNFL	.193	J	0	pCi/L
1954	113798	-	22-JUN-93	RA-226	UNFL	1.460	-	1	pCi/L
1954	113798	-	22-JUN-93	TH-228	UNFL	1.100	-	1.04	pCi/L
1954	113798	-	22-JUN-93	TH-232	UNFL	.938	J	0	pCi/L
1954	113798	-	22-JUN-93	TH-TOTAL	UNFL	8.550	-	3	ug/L
1954	113798	-	22-JUN-93	U-234	FLTR	27.900	-	1.9	pCi/L
1954	113798	-	22-JUN-93	U-234	UNFL	18.600	-	1.9	pCi/L
1954	113798	-	22-JUN-93	U-235/236	FLTR	1.720	-	0	pCi/L
1954	113798	-	22-JUN-93	U-235/236	UNFL	.936	J	0	pCi/L
1954	113798	-	22-JUN-93	U-238	FLTR	29.500	-	1.07	pCi/L
1954	113798	-	22-JUN-93	U-238	UNFL	19.100	-	1.07	pCi/L
1954	113798	-	22-JUN-93	U-TOTAL	FLTR	64.500	-	4	ug/L
1954	113798	-	22-JUN-93	U-TOTAL	UNFL	38.900	-	4	ug/L
VOLATILE ORGANICS									
11032	113869	-	30-JUN-93	Acetone	UNFL	6.000	J	0	ug/L
SEMIVOLATILE ORGANICS									
1046	116231	-	11-MAY-93	Di-n-butyl phthalate	UNFL	4.000	J	0	ug/L
11032	113869	-	30-JUN-93	Diethyl phthalate	UNFL	1.000	J	0	ug/L
11032	113869	-	30-JUN-93	Tributyl phosphate	UNFL	1.000	J	0	ug/L
GENERAL CHEMISTRY									
1046	113312	-	28-MAY-93	Total Organic Carbon	UNFL	1.100	-	0	mg/L
1046	113312	-	28-MAY-93	Total Organic Nitrogen	UNFL	.190	-	0	mg/L
1065	112013	-	04-MAY-93	Total Kjeldahl Nitrogen	UNFL	.340	-	0	mg/L
1065	112013	-	04-MAY-93	Total Organic Carbon	UNFL	1.150	-	0	mg/L
1065	112013	-	04-MAY-93	Total Organic Nitrogen	UNFL	.340	-	0	mg/L
11032	113869	-	30-JUN-93	Total Kjeldahl Nitrogen	UNFL	3.320	-	0	mg/L
11032	113869	-	30-JUN-93	Total Organic Carbon	UNFL	1.790	J	0	mg/L
11032	113869	-	30-JUN-93	Total Organic Nitrogen	UNFL	3.060	J	0	mg/L
11085	113792	-	16-JUN-93	Total Kjeldahl Nitrogen	UNFL	4.610	-	0	mg/L
11085	113792	-	16-JUN-93	Total Organic Carbon	UNFL	1.300	-	0	mg/L

See footnotes at end of table

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TABLE F-2G
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	QUAL	BACKGROUND UNITS
GENERAL CHEMISTRY (Continued)								
11085	113792	-	16-JUN-93	Total Organic Halides	UNFL	.021	-	0 mg/L
11085	113792	-	16-JUN-93	Total Organic Nitrogen	UNFL	4.500	-	0 mg/L
1941	112997	-	30-APR-93	Total Kjeldahl Nitrogen	UNFL	8.430	-	0 mg/L
1941	112997	-	30-APR-93	Total Organic Carbon	UNFL	2.600	-	0 mg/L
1941	112997	-	30-APR-93	Total Organic Nitrogen	UNFL	8.020	-	0 mg/L
1942	113000	-	01-MAY-93	Sulfate	UNFL	162.700	-	141.894 mg/L
1942	113000	-	01-MAY-93	Total Kjeldahl Nitrogen	UNFL	3.240	-	0 mg/L
1942	113000	-	01-MAY-93	Total Organic Carbon	UNFL	3.380	-	0 mg/L
1942	113000	-	01-MAY-93	Total Organic Halides	UNFL	.012	-	0 mg/L
1942	113000	-	01-MAY-93	Total Organic Nitrogen	UNFL	2.680	-	0 mg/L
1954	113798	-	22-JUN-93	Sulfate	UNFL	203.700	-	141.894 mg/L
1954	113798	-	22-JUN-93	Total Kjeldahl Nitrogen	UNFL	1.490	-	0 mg/L
1954	113798	-	22-JUN-93	Total Organic Carbon	UNFL	1.400	-	0 mg/L
1954	113798	-	22-JUN-93	Total Organic Halides	UNFL	.021 J	-	0 mg/L
1954	113798	-	22-JUN-93	Total Organic Nitrogen	UNFL	1.270	-	0 mg/L

^aBackground concentrations established for metals are filtered while all other background parameters are unfiltered

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

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TABLE F-2H
SOUTH FIELD
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN GROUNDWATER - 2000 SERIES
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	RESULTS	VAL QUAL	BACKGROUND UNITS
METALS									
2014	003064	-	28-MAR-88	Aluminum	FLTR		.755 -		.184 mg/L
2014	004151	-	26-JUL-89	Aluminum	FLTR		.243 -		.184 mg/L
2014	004151	-	26-JUL-89	Nickel	FLTR		.084 -		.026 mg/L
2014	004211	-	01-APR-90	Molybdenum	FLTR		.049 J		.027 mg/L
2046	004097	-	10-MAY-89	Calcium	FLTR		143.000 -		135.163 mg/L
2046	004097	-	10-MAY-89	Magnesium	FLTR		38.700 -		38.07 mg/L
2046	004097	-	10-MAY-89	Potassium	FLTR		3.230 -		3.087 mg/L
2046	004219	-	03-APR-90	Aluminum	FLTR		.185 -		.184 mg/L
2046	004219	-	03-APR-90	Cadmium	FLTR		.007 -		.006 mg/L
2046	004219	-	03-APR-90	Potassium	FLTR		3.510 J		3.087 mg/L
2065	003095	-	19-APR-88	Magnesium	FLTR		42.800 -		38.07 mg/L
2065	003095	-	19-APR-88	Potassium	FLTR		4.070 -		3.087 mg/L
2065	003438	-	04-AUG-88	Calcium	*F		160.000 -		135.163 mg/L
2065	003438	-	04-AUG-88	Magnesium	*F		46.000 -		38.07 mg/L
2065	003538	-	02-FEB-89	Cadmium	FLTR	DUP	.009 -		.006 mg/L
2065	003538	-	02-FEB-89	Calcium	FLTR	DUP	177.000 -		135.163 mg/L
2065	003538	-	02-FEB-89	Magnesium	FLTR	DUP	50.100 -		38.07 mg/L
2065	003538	-	02-FEB-89	Potassium	FLTR	DUP	3.250 -		3.087 mg/L
2065	003693	-	08-NOV-88	Calcium	FLTR		140.000 -		135.163 mg/L
2065	003693	-	08-NOV-88	Magnesium	FLTR		39.400 -		38.07 mg/L
2065	003884	-	02-FEB-89	Cadmium	FLTR		.009 -		.006 mg/L
2065	003884	-	02-FEB-89	Calcium	FLTR		185.000 -		135.163 mg/L
2065	003884	-	02-FEB-89	Magnesium	FLTR		51.300 -		38.07 mg/L
2065	003884	-	02-FEB-89	Nickel	FLTR		.032 -		.026 mg/L
2065	003884	-	02-FEB-89	Potassium	FLTR		3.190 -		3.087 mg/L
2065	003884	-	02-FEB-89	Selenium	FLTR		.006 J		.005 mg/L
2065	004163	-	30-JUL-89	Cadmium	FLTR		.008 -		.006 mg/L
2065	004163	-	30-JUL-89	Calcium	FLTR		184.000 -		135.163 mg/L
2065	004163	-	30-JUL-89	Chromium	FLTR		.050 -		.042 mg/L
2065	004163	-	30-JUL-89	Magnesium	FLTR		54.300 -		38.07 mg/L
2065	004168	-	30-JUL-89	Cadmium	FLTR	DUP	.008 -		.006 mg/L
2065	004168	-	30-JUL-89	Calcium	FLTR	DUP	183.000 -		135.163 mg/L

See footnotes at end of table

TABLE F-2H
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	RESULTS	VAL QUAL	BACKGROUND	UNITS
METALS (Continued)										
2065	004168	-	30-JUL-89	Chromium	FLTR	DUP	.052 -	.042	mg/L	
2065	004168	-	30-JUL-89	Magnesium	FLTR	DUP	54.300 -	38.07	mg/L	
2065	004225	-	09-APR-90	Cadmium	FLTR		.007 J	.006	mg/L	
2065	004225	-	09-APR-90	Calcium	FLTR		170.000 J	135.163	mg/L	
2065	004225	-	09-APR-90	Chromium	FLTR		.052 J	.042	mg/L	
2065	004225	-	09-APR-90	Magnesium	FLTR		58.200 J	38.07	mg/L	
2065	004225	-	09-APR-90	Potassium	FLTR		3.460 J	3.087	mg/L	
2065	004225	-	09-APR-90	Vanadium	FLTR		.031 J	.027	mg/L	
2385	004192	-	06-MAY-90	Cadmium	FLTR		.008 -	.006	mg/L	
2385	004192	-	06-MAY-90	Calcium	FLTR		146.000 -	135.163	mg/L	
2385	004192	-	06-MAY-90	Magnesium	FLTR		44.200 -	38.07	mg/L	
2385	004192	-	06-MAY-90	Nickel	FLTR		.042 -	.026	mg/L	
2385	004192	-	06-MAY-90	Silver	FLTR		.026 -	.023	mg/L	
2385	004303	-	10-JUL-90	Calcium	FLTR		136.000 -	135.163	mg/L	
2385	004303	-	10-JUL-90	Magnesium	FLTR		40.600 -	38.07	mg/L	
RADIONUCLIDES										
1516	046938	-	17-JUL-90	U-TOTAL	*U		293.000 -	2.92	ug/L	
1516	046941	-	21-AUG-90	U-TOTAL	FLTR		687.000 -	2.92	ug/L	
1517	046944	-	17-JUL-90	U-TOTAL	UNKN	DUP	52.800 -	2.92	ug/L	
1517	046945	-	17-JUL-90	TH-TOTAL	UNKN		3.720 J	.2	ug/L	
1517	046945	-	17-JUL-90	U-TOTAL	UNKN		966.000 -	2.92	ug/L	
1517	046946	-	21-AUG-90	U-TOTAL	FLTR		29.900 -	2.92	ug/L	
1518	046965	-	21-AUG-90	U-TOTAL	FLTR		64.000 -	2.92	ug/L	
2014	003064	-	28-MAR-88	U-234	*U		9.500 J	1.9	pCi/L	
2014	003064	-	28-MAR-88	U-235/236	*U		1.600 J	0	pCi/L	
2014	003064	-	28-MAR-88	U-238	*U		13.100 J	.9	pCi/L	
2014	003384	-	28-JUL-88	U-234	*U		7.700 J	1.9	pCi/L	
2014	003384	-	28-JUL-88	U-238	*U		9.900 J	.9	pCi/L	
2014	003384	-	28-JUL-88	U-TOTAL	*U		33.000 -	2.92	ug/L	
2014	003673	-	06-NOV-88	U-234	*U		9.800 -	1.9	pCi/L	
2014	003673	-	06-NOV-88	U-238	*U		13.500 -	.9	pCi/L	
2014	003673	-	06-NOV-88	U-TOTAL	*U		35.000 J	2.92	ug/L	
2014	003869	-	31-JAN-89	RA-226	*U		1.400 -	1.2	pCi/L	
2014	003869	-	31-JAN-89	U-234	*U		4.200 -	1.9	pCi/L	
2014	003869	-	31-JAN-89	U-238	*U		5.700 -	.9	pCi/L	
2014	003869	-	31-JAN-89	U-TOTAL	*U		17.000 -	2.92	ug/L	
2014	004151	-	26-JUL-89	U-234	*U		7.000 -	1.9	pCi/L	
2014	004151	-	26-JUL-89	U-238	*U		9.000 -	.9	pCi/L	
2014	004151	-	26-JUL-89	U-TOTAL	*U		33.000 -	2.92	ug/L	

See footnotes at end of table

TABLE F-2H
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	VAL RESULTS	QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)									
2014	004211	-	01-APR-90	U-234	*U		7.150 J		1.9 pCi/L
2014	004211	-	01-APR-90	U-238	*U		8.950 J		.9 pCi/L
2014	004211	-	01-APR-90	U-TOTAL	*U		36.000 -		2.92 ug/L
2046	003997	-	02-FEB-89	U-234	*U		93.800 -		1.9 pCi/L
2046	003997	-	02-FEB-89	U-235/236	*U		4.300 -		0 pCi/L
2046	003997	-	02-FEB-89	U-238	*U		102.000 -		.9 pCi/L
2046	003997	-	02-FEB-89	U-TOTAL	*U		309.000 -		2.92 ug/L
2046	004097	-	10-MAY-89	U-234	*U		219.000 -		1.9 pCi/L
2046	004097	-	10-MAY-89	U-235/236	*U		9.700 -		0 pCi/L
2046	004097	-	10-MAY-89	U-238	*U		231.000 -		.9 pCi/L
2046	004097	-	10-MAY-89	U-TOTAL	*U		851.000 -		2.92 ug/L
2046	004159	-	28-JUL-89	U-234	*U		86.900 -		1.9 pCi/L
2046	004159	-	28-JUL-89	U-235/236	*U		3.800 -		0 pCi/L
2046	004159	-	28-JUL-89	U-238	*U		87.700 -		.9 pCi/L
2046	004159	-	28-JUL-89	U-TOTAL	*U		232.000 -		2.92 ug/L
2046	004219	-	03-APR-90	U-234	*U		199.000 J		1.9 pCi/L
2046	004219	-	03-APR-90	U-235/236	*U		11.500 J		0 pCi/L
2046	004219	-	03-APR-90	U-238	*U		206.000 J		.9 pCi/L
2046	004219	-	03-APR-90	U-TOTAL	*U		907.000 -		2.92 ug/L
2065	003095	-	19-APR-88	U-234	*U		5.100 -		1.9 pCi/L
2065	003095	-	19-APR-88	U-238	*U		3.300 -		.9 pCi/L
2065	003095	-	19-APR-88	U-TOTAL	*U		3.000 J		2.92 ug/L
2065	003438	-	04-AUG-88	U-234	FLTR		4.800 J		1.9 pCi/L
2065	003438	-	04-AUG-88	U-234	UNFL		4.600 J		1.9 pCi/L
2065	003438	-	04-AUG-88	U-238	FLTR		4.100 J		.9 pCi/L
2065	003438	-	04-AUG-88	U-238	UNFL		4.000 J		.9 pCi/L
2065	003438	-	04-AUG-88	U-TOTAL	FLTR		10.000 -		2.92 ug/L
2065	003438	-	04-AUG-88	U-TOTAL	UNFL		9.000 -		2.92 ug/L
2065	003538	-	02-FEB-89	TH-232	FLTR	DUP	1.400 -		0 pCi/L
2065	003538	-	02-FEB-89	TH-TOTAL	FLTR	DUP	13.000 -		2 ug/L
2065	003538	-	02-FEB-89	U-234	FLTR	DUP	6.000 -		1.9 pCi/L
2065	003538	-	02-FEB-89	U-234	UNFL	DUP	5.300 -		1.9 pCi/L
2065	003538	-	02-FEB-89	U-238	FLTR	DUP	3.700 -		.9 pCi/L
2065	003538	-	02-FEB-89	U-238	UNFL	DUP	3.900 -		.9 pCi/L
2065	003538	-	02-FEB-89	U-TOTAL	FLTR	DUP	13.000 -		2.92 ug/L
2065	003538	-	02-FEB-89	U-TOTAL	UNFL	DUP	9.000 -		2.92 ug/L
2065	003693	-	08-NOV-88	U-234	FLTR		4.700 J		1.9 pCi/L
2065	003693	-	08-NOV-88	U-234	UNFL		2.600 J		1.9 pCi/L
2065	003693	-	08-NOV-88	U-238	FLTR		3.900 J		.9 pCi/L
2065	003693	-	08-NOV-88	U-238	UNFL		2.600 J		.9 pCi/L

See footnotes at end of table

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000519

TABLE F-2H
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	VAL RESULTS	QUAL	BACKGROUND	UNITS
RADIONUCLIDES (Continued)										
2065	003693	-	08-NOV-88	U-TOTAL	FLTR		12.000	-	2.92	ug/L
2065	003693	-	08-NOV-88	U-TOTAL	UNFL		7.000	-	2.92	ug/L
2065	003884	-	02-FEB-89	TH-228	FLTR		2.300	J	1.52	pCi/L
2065	003884	-	02-FEB-89	U-234	FLTR		5.000	J	1.9	pCi/L
2065	003884	-	02-FEB-89	U-238	FLTR		3.500	J	.9	pCi/L
2065	004163	-	30-JUL-89	U-234	*U		5.500	-	1.9	pCi/L
2065	004163	-	30-JUL-89	U-238	*U		5.300	-	.9	pCi/L
2065	004163	-	30-JUL-89	U-TOTAL	*U		12.000	-	2.92	ug/L
2065	004168	-	30-JUL-89	U-234	*U	DUP	4.100	-	1.9	pCi/L
2065	004168	-	30-JUL-89	U-238	*U	DUP	4.000	-	.9	pCi/L
2065	004168	-	30-JUL-89	U-TOTAL	*U	DUP	11.000	-	2.92	ug/L
2065	004225	-	09-APR-90	U-234	*U		3.890	-	1.9	pCi/L
2065	004225	-	09-APR-90	U-238	*U		3.780	-	.9	pCi/L
2065	004225	-	09-APR-90	U-TOTAL	*U		11.400	-	2.92	ug/L
2385	004192	-	06-MAY-90	TH-232	*U		1.490	J	0	pCi/L
2385	004192	-	06-MAY-90	TH-TOTAL	*U		13.500	J	2	ug/L
2385	004192	-	06-MAY-90	U-234	*U		51.400	J	1.9	pCi/L
2385	004192	-	06-MAY-90	U-235/236	*U		1.780	J	0	pCi/L
2385	004192	-	06-MAY-90	U-238	*U		51.400	J	.9	pCi/L
2385	004192	-	06-MAY-90	U-TOTAL	*U		204.000	J	2.92	ug/L
2385	004303	-	10-JUL-90	U-234	*U		34.800	J	1.9	pCi/L
2385	004303	-	10-JUL-90	U-235/236	*U		1.810	J	0	pCi/L
2385	004303	-	10-JUL-90	U-238	*U		36.200	J	.9	pCi/L
2385	004303	-	10-JUL-90	U-TOTAL	*U		108.000	J	2.92	ug/L
VOLATILE ORGANICS										
1517	046945	-	17-JUL-90	1,1,1-Trichloroethane	UNFL		5.000	-	0	ug/L
1517	046945	-	17-JUL-90	1,1-Dichloroethane	UNFL		9.000	-	0	ug/L
1517	046945	-	17-JUL-90	1,2-Dichloroethene	UNFL		5.000	-	0	ug/L
1517	046945	-	17-JUL-90	Acetone	UNFL		5.000	J	0	ug/L
1517	046945	-	17-JUL-90	Trichloroethene	UNFL		7.000	-	0	ug/L
2014	003064	-	28-MAR-88	Acetone	UNFL		2.000	J	0	ug/L
SEMITOLATILE ORGANICS										
2014	003064	-	28-MAR-88	bis(2-Ethylhexyl) phthalate	UNFL		2.000	J	0	ug/L
2065	003095	-	19-APR-88	Diethyl phthalate	UNFL		20.000	-	0	ug/L
GENERAL CHEMISTRY										
2014	003673	-	06-NOV-88	Total Kjeldahl Nitrogen	UNFL		1.070	J	0	mg/L
2014	003673	-	06-NOV-88	Total Organic Halides	UNFL		1.700	-	.021	mg/L

See footnotes at end of table

TABLE F-2H
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	RESULTS	VAL	QUAL	BACKGROUND	UNITS
GENERAL CHEMISTRY (Continued)											
2014	003673	-	06-NOV-88	Total Organic Nitrogen	UNFL		1.070 J	.652	mg/L		
2014	003869	-	31-JAN-89	Total Kjeldahl Nitrogen	UNFL		.762 -	0	mg/L		
2014	004151	-	26-JUL-89	Total Organic Halides	UNFL		.060 J	.021	mg/L		
2014	004211	-	01-APR-90	Total Organic Carbon	UNFL		4.070 J	3.764	mg/L		
2046	003997	-	02-FEB-89	Total Kjeldahl Nitrogen	UNFL		.275 J	0	mg/L		
2046	004097	-	10-MAY-89	Phosphorus	UNFL		.801 -	.693	mg/L		
2046	004097	-	10-MAY-89	Total Kjeldahl Nitrogen	UNFL		.377 -	0	mg/L		
2046	004159	-	28-JUL-89	Total Kjeldahl Nitrogen	UNFL		.516 -	0	mg/L		
2048	003994	-	09-FEB-89	Phosphorus	UNFL		.960 J	.693	mg/L		
2048	003994	-	09-FEB-89	Total Kjeldahl Nitrogen	UNFL		.441 J	0	mg/L		
2048	004100	-	02-MAY-89	Phosphorus	UNFL		1.291 -	.693	mg/L		
2048	004100	-	02-MAY-89	Total Kjeldahl Nitrogen	UNFL		.725 -	0	mg/L		
2048	004100	-	02-MAY-89	Total Organic Nitrogen	UNFL		.725 -	.652	mg/L		
2065	003538	-	02-FEB-89	Total Kjeldahl Nitrogen	UNFL	DUP	1.790 J	0	mg/L		
2065	003538	-	02-FEB-89	Total Organic Nitrogen	UNFL	DUP	1.790 -	.652	mg/L		
2065	003884	-	02-FEB-89	Total Kjeldahl Nitrogen	UNFL		.100 J	0	mg/L		
2065	004163	-	30-JUL-89	Total Kjeldahl Nitrogen	UNFL		.409 -	0	mg/L		
2065	004168	-	30-JUL-89	Total Kjeldahl Nitrogen	UNFL	DUP	.452 -	0	mg/L		
2385	004192	-	06-MAY-90	Total Organic Carbon	UNFL		62.000 -	3.764	mg/L		
2401	038375	-	03-JUN-92	Total Organic Carbon	UNFL		22.000 -	3.764	mg/L		

^aBackground concentrations established for metals are filtered while all other background parameters are unfiltered

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

UNKN = Unknown; filtered status could not be determined.

DUP = Duplicate Sample

*F = Filtered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.

*U = Unfiltered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.

N/A = Not applicable

TABLE F-2I
SOUTH FIELD
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN GROUNDWATER - 2000 SERIES
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	VAL RESULTS	QUAL	BACKGROUND UNITS
<u>METALS</u>									
2014	111992	-	30-APR-93	Aluminum	UNFL		.696 -		.184 mg/L
2046	116233	-	11-MAY-93	Potassium	UNFL		4.400 -		3.087 mg/L
2065	112008	-	03-MAY-93	Calcium	UNFL		155.000 -		135.163 mg/L
2065	112008	-	03-MAY-93	Magnesium	UNFL		49.300 -		38.07 mg/L
2065	112008	-	03-MAY-93	Potassium	UNFL		3.090 -		3.087 mg/L
2065	113291	-	03-MAY-93	Calcium	FLTR		158.000 -		135.163 mg/L
2065	113291	-	03-MAY-93	Magnesium	FLTR		50.800 -		38.07 mg/L
2065	113291	-	03-MAY-93	Potassium	FLTR		3.200 -		3.087 mg/L
2385	111998	-	28-APR-93	Magnesium	FLTR		40.300 -		38.07 mg/L
2401	116229	-	11-MAY-93	Aluminum	UNFL		.234 -		.184 mg/L
2943	113314	-	27-MAY-93	Aluminum	UNFL	DUP	.906 J		.184 mg/L
2944	113866	-	30-JUN-93	Aluminum	UNFL		5.110 -		.184 mg/L
2944	113866	-	30-JUN-93	Calcium	UNFL		198.000 -		135.163 mg/L
2944	113866	-	30-JUN-93	Iron	UNFL		15.100 -		4 mg/L
2944	113866	-	30-JUN-93	Magnesium	UNFL		60.200 -		38.07 mg/L
2944	113866	-	30-JUN-93	Potassium	UNFL		3.180 -		3.087 mg/L
2944	113866	-	30-JUN-93	Silicon	UNFL		12.800 -		10.491 mg/L
2945	112994	-	28-APR-93	Calcium	UNFL		166.000 -		135.163 mg/L
2945	113313	-	26-MAY-93	Aluminum	UNFL		.834 -		.184 mg/L
2945	113313	-	26-MAY-93	Calcium	UNFL		169.000 -		135.163 mg/L
2945	113313	-	26-MAY-93	Potassium	UNFL		3.160 -		3.087 mg/L
2954	113795	-	21-JUN-93	Calcium	FLTR		147.000 -		135.163 mg/L
2954	113795	-	21-JUN-93	Calcium	UNFL		146.000 -		135.163 mg/L
2954	113795	-	21-JUN-93	Potassium	FLTR		4.110 -		3.087 mg/L
2954	113795	-	21-JUN-93	Potassium	UNFL		3.970 -		3.087 mg/L
<u>RADIOMUCLIDES</u>									
2014	111992	-	30-APR-93	GROSS BETA	UNFL		7.030 J		0 pCi/L
2014	111992	-	30-APR-93	NP-237	UNFL		.480 N		0 pCi/L
2014	111992	-	30-APR-93	U-234	UNFL		3.490 -		1.9 pCi/L
2014	111992	-	30-APR-93	U-235/236	UNFL		.220 J		0 pCi/L
2014	111992	-	30-APR-93	U-238	UNFL		3.290 -		.9 pCi/L
2014	111992	-	30-APR-93	U-TOTAL	UNFL		9.050 -		2.92 ug/L

See footnotes at end of table

TABLE F-2I
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)									
2046	116233	-	11-MAY-93	GROSS ALPHA	UNFL		319.000 J		0 pCi/L
2046	116233	-	11-MAY-93	GROSS BETA	UNFL		96.600 J		0 pCi/L
2046	116233	-	11-MAY-93	NP-237	UNFL		.710 N		0 pCi/L
2046	116233	-	11-MAY-93	PU-238	UNFL		.152 J		0 pCi/L
2046	116233	-	11-MAY-93	U-234	UNFL		160.000 -		1.9 pCi/L
2046	116233	-	11-MAY-93	U-235/236	UNFL		8.720 -		0 pCi/L
2046	116233	-	11-MAY-93	U-238	UNFL		172.000 -		.9 pCi/L
2046	116233	-	11-MAY-93	U-TOTAL	UNFL		423.000 -		2.92 ug/L
2065	112008	-	03-MAY-93	GROSS BETA	UNFL		6.920 J		0 pCi/L
2065	112008	-	03-MAY-93	U-234	UNFL		4.810 -		1.9 pCi/L
2065	112008	-	03-MAY-93	U-235/236	UNFL		.311 J		0 pCi/L
2065	112008	-	03-MAY-93	U-238	UNFL		3.640 -		.9 pCi/L
2065	112008	-	03-MAY-93	U-TOTAL	UNFL		9.940 -		2.92 ug/L
2065	113291	-	03-MAY-93	GROSS BETA	FLTR		6.620 J		0 pCi/L
2065	113291	-	03-MAY-93	U-234	FLTR		5.430 -		1.9 pCi/L
2065	113291	-	03-MAY-93	U-238	FLTR		3.390 -		.9 pCi/L
2065	113291	-	03-MAY-93	U-TOTAL	FLTR		9.960 -		2.92 ug/L
2385	111998	-	28-APR-93	GROSS ALPHA	UNFL		49.700 J		0 pCi/L
2385	111998	-	28-APR-93	GROSS BETA	UNFL		25.500 J		0 pCi/L
2385	111998	-	28-APR-93	PU-238	UNFL		.637 J		0 pCi/L
2385	111998	-	28-APR-93	U-234	UNFL		33.700 -		1.9 pCi/L
2385	111998	-	28-APR-93	U-235/236	UNFL		1.690 -		0 pCi/L
2385	111998	-	28-APR-93	U-238	UNFL		37.100 -		.9 pCi/L
2385	111998	-	28-APR-93	U-TOTAL	UNFL		98.700 -		2.92 ug/L
2401	116229	-	11-MAY-93	NP-237	UNFL		.841 N		0 pCi/L
2401	116229	-	11-MAY-93	PU-238	UNFL		.256 J		0 pCi/L
2401	116229	-	11-MAY-93	U-238	UNFL		1.440 J		.9 pCi/L
2401	116229	-	11-MAY-93	U-TOTAL	UNFL		5.130 -		2.92 ug/L
2943	113003	-	05-MAY-93	NP-237	UNFL		.150 N		0 pCi/L
2943	113003	-	05-MAY-93	TH-230	UNFL		2.060 -		1.79 pCi/L
2943	113003	-	05-MAY-93	U-235/236	UNFL		.710 J		0 pCi/L
2943	113003	-	05-MAY-93	U-238	UNFL		1.310 -		.9 pCi/L
2943	113003	-	05-MAY-93	U-TOTAL	UNFL		2.930 -		2.92 ug/L
2943	113314	-	27-MAY-93	PU-238	UNFL		.075 J		0 pCi/L
2943	113314	-	27-MAY-93	U-235/236	UNFL		.757 J		0 pCi/L
2943	113314	-	27-MAY-93	U-238	UNFL		1.100 -		.9 pCi/L
2943	113314	-	27-MAY-93	U-TOTAL	UNFL		3.000 -		2.92 ug/L
2943	113315	-	27-MAY-93	GROSS BETA	UNFL	DUP	8.370 -		0 pCi/L
2943	113315	-	27-MAY-93	PU-238	UNFL	DUP	.065 J		0 pCi/L
2943	113315	-	27-MAY-93	U-238	UNFL	DUP	1.250 -		.9 pCi/L

See footnotes at end of table

TABLE F-2I
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	VAL RESULTS	VAL QUAL	BACKGROUND	UNITS
RADIOMUCLIDES (Continued)										
2943	113315	-	27-MAY-93	U-TOTAL	UNFL	DUP	3.200 -	2.92	ug/L	
2944	113866	-	30-JUN-93	GROSS BETA	FLTR		12.700 J	0	pCi/L	
2945	112994	-	28-APR-93	GROSS ALPHA	UNFL		1410.000 J	0	pCi/L	
2945	112994	-	28-APR-93	GROSS BETA	UNFL		520.000 J	0	pCi/L	
2945	112994	-	28-APR-93	NP-237	UNFL		.796 J	0	pCi/L	
2945	112994	-	28-APR-93	TH-232	UNFL		.044 J	0	pCi/L	
2945	112994	-	28-APR-93	U-234	UNFL		662.000 -	1.9	pCi/L	
2945	112994	-	28-APR-93	U-235/236	UNFL		31.700 -	0	pCi/L	
2945	112994	-	28-APR-93	U-238	UNFL		707.000 -	.9	pCi/L	
2945	112994	-	28-APR-93	U-TOTAL	UNFL		2070.000 -	2.92	ug/L	
2945	113313	-	26-MAY-93	GROSS ALPHA	UNFL		1120.000 J	0	pCi/L	
2945	113313	-	26-MAY-93	GROSS BETA	UNFL		411.000 -	0	pCi/L	
2945	113313	-	26-MAY-93	NP-237	UNFL		.962 J	0	pCi/L	
2945	113313	-	26-MAY-93	U-TOTAL	UNFL		1820.000 -	2.92	ug/L	
2954	113795	-	21-JUN-93	GROSS ALPHA	FLTR		553.000 J	0	pCi/L	
2954	113795	-	21-JUN-93	GROSS ALPHA	UNFL		781.000 J	0	pCi/L	
2954	113795	-	21-JUN-93	GROSS BETA	FLTR		150.000 J	0	pCi/L	
2954	113795	-	21-JUN-93	GROSS BETA	UNFL		158.000 J	0	pCi/L	
2954	113795	-	21-JUN-93	NP-237	FLTR		.698 N	0	pCi/L	
2954	113795	-	21-JUN-93	SR-90	FLTR		1.170 J	0	pCi/L	
2954	113795	-	21-JUN-93	U-234	FLTR		357.500 -	1.9	pCi/L	
2954	113795	-	21-JUN-93	U-234	UNFL		372.000 -	1.9	pCi/L	
2954	113795	-	21-JUN-93	U-235/236	FLTR		15.700 -	0	pCi/L	
2954	113795	-	21-JUN-93	U-235/236	UNFL		15.600 -	0	pCi/L	
2954	113795	-	21-JUN-93	U-235/236	FLTR		381.000 -	.9	pCi/L	
2954	113795	-	21-JUN-93	U-238	UNFL		384.000 -	.9	pCi/L	
2954	113795	-	21-JUN-93	U-TOTAL	FLTR		1129.000 -	2.92	ug/L	
2954	113795	-	21-JUN-93	U-TOTAL	UNFL		1167.000 -	2.92	ug/L	
VOLATILE ORGANICS										
2065	112008	-	03-MAY-93	Acetone	UNFL		10.000 -	0	ug/L	
2945	112994	-	28-APR-93	1,1,1-Trichloroethane	UNFL		1.000 J	0	ug/L	
2945	112994	-	28-APR-93	Acetone	UNFL		3.000 J	0	ug/L	
SEMITOLATILE ORGANICS										
2046	116233	-	11-MAY-93	Di-n-butyl phthalate	UNFL		4.000 J	0	ug/L	
2046	116233	-	11-MAY-93	bis(2-Ethylhexyl) phthalate	UNFL		3.000 J	0	ug/L	
2401	116229	-	11-MAY-93	Di-n-butyl phthalate	UNFL		5.000 J	0	ug/L	
2401	116229	-	11-MAY-93	bis(2-Ethylhexyl) phthalate	UNFL		2.000 J	0	ug/L	
2945	112994	-	28-APR-93	Butyl benzyl phthalate	UNFL		1.000 J	0	ug/L	

See footnotes at end of table

TABLE F-2I
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	VAL RESULTS	VAL QUAL	BACKGROUND	UNITS
<u>SEMIVOLATILE ORGANICS (Continued)</u>										
2954	113795	-	21-JUN-93	Butyl benzyl phthalate	UNFL		2.000 J		0 ug/L	
2954	113795	-	21-JUN-93	bis(2-Ethylhexyl) phthalate	UNFL		6.000 J		0 ug/L	
<u>GENERAL CHEMISTRY</u>										
2014	111992	-	30-APR-93	Total Kjeldahl Nitrogen	UNFL		.220 -		0 mg/L	
2046	116233	-	11-MAY-93	Total Kjeldahl Nitrogen	UNFL		.110 -		0 mg/L	
2385	111998	-	28-APR-93	Total Kjeldahl Nitrogen	UNFL		.190 -		0 mg/L	
2401	116229	-	11-MAY-93	Total Kjeldahl Nitrogen	UNFL		.160 -		0 mg/L	
2943	113003	-	05-MAY-93	Total Kjeldahl Nitrogen	UNFL		.100 -		0 mg/L	
2944	113866	-	30-JUN-93	Total Kjeldahl Nitrogen	UNFL		.240 -		0 mg/L	
2945	112994	-	28-APR-93	Total Kjeldahl Nitrogen	UNFL		.320 -		0 mg/L	
2954	113795	-	21-JUN-93	Total Kjeldahl Nitrogen	UNFL		.110 -		0 mg/L	

^aBackground concentrations established for metals are filtered while all other background parameters are unfiltered.

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

DUP = Duplicate Sample

F-270

000525

TABLE F-2J
SOUTH FIELD
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN GROUNDWATER - 3000 AND 4000 SERIES
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
METALS								
3046	004207	-	15-JUN-90	Nickel	FLTR	.030	-	.026 mg/L
3385	004309	-	24-JUL-90	Nickel	*F	.029	-	.026 mg/L
4014	003871	-	31-JAN-89	Mercury	FLTR	.006	-	.001 mg/L
4014	004089	-	01-MAY-89	Mercury	FLTR	.003	-	.001 mg/L
4016	003996	-	20-JAN-89	Manganese	FLTR	1.020	-	.8 mg/L
RADIOMUCLIDES								
3014	003084	-	08-APR-88	TH-228	*U	2.500	J	1.52 pCi/L
3014	003084	-	08-APR-88	TH-232	*U	1.100	J	0 pCi/L
3014	003084	-	08-APR-88	U-234	*U	6.700	J	1.9 pCi/L
3014	003084	-	08-APR-88	U-238	*U	8.500	J	.9 pCi/L
3014	003084	-	08-APR-88	U-TOTAL	*U	23.000	J	2.92 ug/L
3014	003385	-	28-JUL-88	TH-TOTAL	*U	7.000	J	2 ug/L
3014	003385	-	28-JUL-88	U-234	*U	7.300	J	1.9 pCi/L
3014	003385	-	28-JUL-88	U-238	*U	10.000	J	.9 pCi/L
3014	003385	-	28-JUL-88	U-TOTAL	*U	29.000	-	2.92 ug/L
3014	003672	-	06-NOV-88	U-234	*U	7.100	-	1.9 pCi/L
3014	003672	-	06-NOV-88	U-238	*U	8.700	-	.9 pCi/L
3014	003672	-	06-NOV-88	U-TOTAL	*U	28.000	J	2.92 ug/L
3014	003870	-	31-JAN-89	U-234	*U	6.900	-	1.9 pCi/L
3014	003870	-	31-JAN-89	U-238	*U	8.900	-	.9 pCi/L
3014	003870	-	31-JAN-89	U-TOTAL	*U	30.000	-	2.92 ug/L
3014	004239	-	01-APR-90	U-234	*U	17.100	J	1.9 pCi/L
3014	004239	-	01-APR-90	U-235/236	*U	1.470	J	0 pCi/L
3014	004239	-	01-APR-90	U-238	*U	16.400	J	.9 pCi/L
3014	004239	-	01-APR-90	U-TOTAL	*U	35.300	-	2.92 ug/L
3045	004198	-	23-MAY-90	U-TOTAL	*U	6.020	-	2.92 ug/L
3046	004207	-	15-JUN-90	RA-226	*U	2.400	-	1.2 pCi/L
3046	004332	-	24-AUG-90	TH-228	*U	1.590	-	1.52 pCi/L
3046	004332	-	24-AUG-90	U-TOTAL	*U	3.030	-	2.92 ug/L
3385	004309	-	24-JUL-90	TH-230	*U	2.210	J	1.79 pCi/L

See footnotes at end of table

TABLE F-2J
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)								
3385	004309	-	24-JUL-90	TH-232	*U	1.040 J		0 pCi/L
3385	004309	-	24-JUL-90	TH-TOTAL	*U	9.380 J		2 ug/L
3385	004363	-	10-JAN-91	U-TOTAL	*U	2.940 -		2.92 ug/L
GENERAL CHEMISTRY								
3014	003672	-	06-NOV-88	Total Kjeldahl Nitrogen	UNFL	.290 J		0 mg/L
3014	003672	-	06-NOV-88	Total Organic Halides	UNFL	1.100 -		.021 mg/L
3014	003870	-	31-JAN-89	Total Kjeldahl Nitrogen	UNFL	.286 -		0 mg/L
3014	003870	-	31-JAN-89	Total Organic Halides	N/A	1.310 -		.021 mg/L
3014	004239	-	01-APR-90	Total Organic Carbon	UNFL	4.450 J		3.764 mg/L
3065	003995	-	25-JAN-89	Total Kjeldahl Nitrogen	UNFL	.100 -		0 mg/L
3065	004098	-	31-MAY-89	Total Kjeldahl Nitrogen	UNFL	.112 -		0 mg/L
3385	004363	-	10-JAN-91	Total Organic Halides	UNFL	.164 -		.021 mg/L
4014	003871	-	31-JAN-89	Total Kjeldahl Nitrogen	UNFL	.192 -		0 mg/L

^aBackground concentrations established for metals are filtered while all other background parameters are unfiltered.

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

*F = Filtered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.

*U = Unfiltered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.

N/A = Not Applicable

TABLE F-3

TABLE F-3

TABLE F-3A
SOUTH FIELD
RI/FS SURFACE SOIL RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	ZONE 3		
SAMPLE NUMBER	005001		
	0 - 2		
SAMPLING DATE	08/28/87		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.300	pCi/g	R
NP-237	0.600	pCi/g	R
PU-238	0.600	pCi/g	R
PU-239/240	0.600	pCi/g	R
RA-226	1.200	pCi/g	R
RA-228	1.000	pCi/g	R
RU-106	1.400	pCi/g	R
SR-90	0.500	pCi/g	R
TC-99	1.000	pCi/g	R
TH-228	0.900	pCi/g	R
TH-230	1.500	pCi/g	R
TH-232	1.700	pCi/g	R
U-234	2.600	pCi/g	R
U-235/236	0.600	pCi/g	R
U-238	2.700	pCi/g	R

F-3-1

000528

FEMP-OIU02-6 FINAL
January 21, 1995

6509

TABLE F-3A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER SAMPLING DATE	RESULTS 1964 110331 0 - 0.5 03/22/93	UNITS pc1/g	VQ	RESULTS 1965 110351 0 - 0.5 03/22/93	UNITS pc1/g	VQ	RESULTS 1966 110355 0 - 0.5 03/22/93	UNITS pc1/g	VQ
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.692	pc1/g	-	0.836	pc1/g	-	0.736	pc1/g	-
GROSS ALPHA	25.200	pc1/g	-	62.000	pc1/g	-	79.500	pc1/g	-
GROSS BETA	39.000	pc1/g	N	56.600	pc1/g	-	53.700	pc1/g	-
NP-237	0.180	pc1/g	N	0.483	pc1/g	N	0.214	pc1/g	N
PU-238	0.091	pc1/g	J	0.019	pc1/g	J	0.116	pc1/g	J
PU-239/240	0.043	pc1/g	J	0.024	pc1/g	J	0.076	pc1/g	J
RA-226	1.220	pc1/g	J	1.800	pc1/g	-	1.740	pc1/g	-
RA-228	1.070	pc1/g	-	1.210	pc1/g	-	3.880	pc1/g	-
RU-106	0.622	pc1/g	UJ	0.777	pc1/g	UJ	0.978	pc1/g	UJ
SR-90	0.355	pc1/g	N	0.534	pc1/g	-	0.393	pc1/g	UJ
TC-99	0.342	pc1/g	UJ	0.333	pc1/g	UJ	0.392	pc1/g	UJ
TH-228	0.911	pc1/g	-	0.770	pc1/g	-	4.410	pc1/g	-
TH-230	1.350	pc1/g	-	0.117	pc1/g	-	12.100	pc1/g	-
TH-232	0.849	pc1/g	-	0.825	pc1/g	-	3.990	pc1/g	-
TH-TOTAL	7.810	ug/g	-	7.590	ug/g	-	36.700	ug/g	-
U-234	3.430	pc1/g	-	16.300	pc1/g	-	10.000	pc1/g	-
U-235/236	0.157	pc1/g	J	0.887	pc1/g	-	0.515	pc1/g	-
U-238	3.470	pc1/g	-	16.600	pc1/g	-	11.300	pc1/g	-
U-TOTAL	10.500	mg/kg	-	49.000	mg/kg	-	38.100	mg/kg	-

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000529

TABLE F-3A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1967	1968	1969
SAMPLE NUMBER	110358	110392	110338
SAMPLING DATE	0 - 0.5 03/22/93	0 - 0.5 03/22/93	0 - 0.5 03/22/93
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.390	pCi/g	-
GROSS ALPHA	20.800	pCi/g	-
GROSS BETA	37.700	pCi/g	-
NP-237	0.074	pCi/g	U
PU-238	0.128	pCi/g	J
PU-239/240	0.032	pCi/g	UJ
RA-226	0.950	pCi/g	J
RA-228	1.050	pCi/g	-
RU-106	0.820	pCi/g	UJ
SR-90	0.360	pCi/g	UJ
TC-99	0.310	pCi/g	UJ
TH-228	0.912	pCi/g	R
TH-230	1.500	pCi/g	R
TH-232	0.908	pCi/g	R
TH-TOTAL	8.350	pCi/g	R
U-234	4.460	pCi/g	-
U-235/236	0.198	pCi/g	J
U-238	4.410	pCi/g	-
U-TOTAL	12.500	mg/kg	-
	0.465	pCi/g	-
	33.500	pCi/g	-
	48.800	pCi/g	-
	0.185	pCi/g	N
	0.072	pCi/g	J
	0.061	pCi/g	J
	1.140	pCi/g	J
	1.020	pCi/g	-
	0.864	pCi/g	UJ
	0.428	pCi/g	UJ
	0.345	pCi/g	UJ
	0.867	pCi/g	-
	1.980	pCi/g	-
	1.070	pCi/g	-
	9.840	ug/g	-
	9.710	pCi/g	-
	0.303	pCi/g	J
	9.840	pCi/g	-
	31.200	mg/kg	-
	0.254	pCi/g	-
	19.000	pCi/g	-
	35.000	pCi/g	-
	0.136	pCi/g	N
	0.044	pCi/g	J
	0.019	pCi/g	J
	1.170	pCi/g	J
	1.070	pCi/g	-
	0.068	pCi/g	UJ
	0.491	pCi/g	UJ
	0.330	pCi/g	UJ
	0.658	pCi/g	-
	1.070	pCi/g	-
	0.728	pCi/g	-
	6.700	ug/g	-
	3.580	pCi/g	-
	0.197	pCi/g	J
	3.790	pCi/g	-
	16.700	mg/kg	-

F-3-3

000530

TABLE F-3A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1970			1971			1972				
SAMPLE NUMBER	110372	RESULTS	UNITS	110324	RESULTS	UNITS	110378	RESULTS	UNITS		
SAMPLING DATE	0 - 0.5			0 - 0.5			0 - 0.5				
RADIOLOGICAL PARAMETERS											
	RESULTS	UNITS	VQ		RESULTS	UNITS	VQ		RESULTS	UNITS	VQ
CS-137	0.691	pCi/g	-		0.109	pCi/g	UJ		0.473	pCi/g	-
GROSS ALPHA	31.400	pCi/g	-		18.700	pCi/g	-		234.000	pCi/g	J
GROSS BETA	41.300	pCi/g	-		34.700	pCi/g	-		94.700	pCi/g	J
NP-237	NA				0.010	pCi/g	R		NA		
PU-238	NA				0.042	pCi/g	UJ		0.341	pCi/g	J
PU-239/240	NA				0.021	pCi/g	J		0.042	pCi/g	J
RA-226	1.140	pCi/g	J		0.874	pCi/g	J		21.600	pCi/g	-
RA-228	1.050	pCi/g	-		0.986	pCi/g	-		1.170	pCi/g	-
RU-106	0.773	pCi/g	UJ		0.840	pCi/g	UJ		0.124	pCi/g	UJ
SR-90	0.420	pCi/g	UJ		0.553	pCi/g	UJ		0.387	pCi/g	UJ
TC-99	0.368	pCi/g	UJ		0.335	pCi/g	UJ		0.377	pCi/g	UJ
TH-228	1.030	pCi/g	-		0.684	pCi/g	-		1.250	pCi/g	R
TH-230	2.210	pCi/g	-		0.158	pCi/g	-		21.100	pCi/g	R
TH-232	0.922	pCi/g	-		0.813	pCi/g	-		1.060	pCi/g	R
TH-TOTAL	8.480	ug/g	-		7.480	ug/g	-		9.750	ug/g	R
U-234	7.440	pCi/g	-		6.040	pCi/g	-		6.180	pCi/g	-
U-235/236	0.315	pCi/g	J		0.344	pCi/g	-		0.299	pCi/g	J
U-238	7.720	pCi/g	-		6.480	pCi/g	-		6.880	pCi/g	-
U-TOTAL	27.400	mg/kg	-		25.500	mg/kg	-		28.300	mg/kg	-

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000531

TABLE F-3A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1975			1976(11188)			1977		
SAMPLE NUMBER	110385	RESULTS	UNITS	110340	RESULTS	UNITS	110304	RESULTS	UNITS
	0 - 0.5		VQ	0 - 0.5		VQ	0 - 0.5		VQ
SAMPLING DATE	03/22/93			03/22/93			03/19/93		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.089	pCi/g	J	0.112	pCi/g	-	0.116	pCi/g	-
GROSS ALPHA	47.500	pCi/g	-	33.900	pCi/g	-	20.300	pCi/g	J
GROSS BETA	45.200	pCi/g	-	32.200	pCi/g	-	29.000	pCi/g	J
NP-237	0.110	pCi/g	N	0.239	pCi/g	N	0.336	pCi/g	N
PU-238	0.019	pCi/g	-	0.039	pCi/g	J	0.035	pCi/g	J
PU-239/240	0.035	pCi/g	UJ	0.049	pCi/g	J	0.061	pCi/g	J
RA-226	1.020	pCi/g	J	1.440	pCi/g	J	1.120	pCi/g	-
RA-228	1.060	pCi/g	-	1.000	pCi/g	-	1.180	pCi/g	-
RU-106	0.730	pCi/g	UJ	0.082	pCi/g	UJ	0.603	pCi/g	UJ
SR-90	0.160	pCi/g	J	0.498	pCi/g	UJ	0.485	pCi/g	UJ
TC-99	142.000	pCi/g	J	0.343	pCi/g	UJ	0.365	pCi/g	UJ
TH-228	0.980	pCi/g	-	0.823	pCi/g	-	1.060	pCi/g	-
TH-230	3.520	pCi/g	-	1.700	pCi/g	-	1.920	pCi/g	-
TH-232	0.190	pCi/g	-	0.927	pCi/g	-	0.859	pCi/g	-
TH-TOTAL	8.360	ug/g	-	8.530	ug/g	-	7.900	ug/g	-
U-234	6.620	pCi/g	-	3.200	pCi/g	-	3.320	pCi/g	-
U-235/236	0.350	pCi/g	J	0.226	pCi/g	J	0.170	pCi/g	J
U-238	6.920	pCi/g	-	3.540	pCi/g	-	4.150	pCi/g	-
U-TOTAL	23.800	mg/kg	-	10.400	mg/kg	-	19.000	mg/kg	-

F-3-5

000532

TABLE F-3A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1978	SF-SS-10(11186)			SF-SS-11(11187)		
SAMPLE NUMBER	110335	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
	0 - 0.5				0 - 0.5		
SAMPLING DATE	03/22/93				03/19/93		
RADIOLOGICAL PARAMETERS							
CS-137	0.799	pCi/g	-		0.583	pCi/g	-
GROSS ALPHA	41.800	pCi/g	-		237.000	pCi/g	J
GROSS BETA	43.500	pCi/g	-		113.000	pCi/g	J
NP-237	0.177	pCi/g	N		0.226	pCi/g	N
PU-238	0.058	pCi/g	J		0.046	pCi/g	J
PU-239/240	0.058	pCi/g	J		0.065	pCi/g	J
RA-226	1.220	pCi/g	J		30.800	pCi/g	-
RA-228	0.973	pCi/g	-		1.650	pCi/g	-
RU-106	0.616	pCi/g	UJ		0.956	pCi/g	UJ
SR-90	1.000	pCi/g	-		0.396	pCi/g	UJ
TC-99	0.361	pCi/g	UJ		0.371	pCi/g	UJ
TH-228	1.020	pCi/g	-		1.250	pCi/g	-
TH-230	1.810	pCi/g	-		13.800	pCi/g	-
TH-232	0.903	pCi/g	-		1.200	pCi/g	-
TH-TOTAL	8.310	ug/g	-		11.040	ug/g	-
U-234	4.980	pCi/g	-		8.010	pCi/g	-
U-235/236	0.210	pCi/g	J		0.346	pCi/g	J
U-238	5.350	pCi/g	-		9.060	pCi/g	-
U-TOTAL	18.800	mg/kg	-		36.000	mg/kg	-

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000533

TABLE F-3A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	SF-SS-16			SF-SS-17			SF-SS-18				
SAMPLE NUMBER	110343	RESULTS	UNITS	VQ	110297	RESULTS	UNITS	VQ	110287		
	0 - 0.5				0 - 0.5				0 - 0.5		
SAMPLING DATE	03/22/93				03/18/93				03/18/93		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ		RESULTS	UNITS	VQ		RESULTS	UNITS	VQ
CS-137	0.350	pCi/g	-		0.289	pCi/g	-		0.088	pCi/g	UJ
GROSS ALPHA	29.900	pCi/g	-		30.300	pCi/g	-		22.500	pCi/g	-
GROSS BETA	32.200	pCi/g	-		31.800	pCi/g	-		27.700	pCi/g	-
NP-237	0.092	pCi/g	N		0.321	pCi/g	R		0.052	pCi/g	U
PU-238	0.051	pCi/g	UJ		0.284	pCi/g	R		0.125	pCi/g	J
PU-239/240	0.049	pCi/g	J		0.169	pCi/g	R		0.132	pCi/g	UJ
RA-226	1.330	pCi/g	J		1.920	pCi/g	-		1.040	pCi/g	-
RA-228	1.200	pCi/g	-		1.310	pCi/g	-		0.917	pCi/g	-
RU-106	0.826	pCi/g	UJ		0.800	pCi/g	UJ		0.635	pCi/g	UJ
SR-90	0.491	pCi/g	UJ		0.508	pCi/g	UJ		0.942	pCi/g	J
TC-99	0.346	pCi/g	UJ		0.371	pCi/g	UJ		0.361	pCi/g	UJ
TH-228	1.080	pCi/g	-		0.819	pCi/g	R		0.815	pCi/g	-
TH-230	2.060	pCi/g	-		3.790	pCi/g	R		1.530	pCi/g	-
TH-232	0.835	pCi/g	-		0.857	pCi/g	R		0.929	pCi/g	-
TH-TOTAL	7.680	ug/g	-		7.810	ug/g	R		8.460	ug/g	-
U-234	6.440	pCi/g	-		4.940	pCi/g	J		2.730	pCi/g	J
U-235/236	0.285	pCi/g	J		0.258	pCi/g	J		0.149	pCi/g	J
U-238	6.530	pCi/g	-		5.990	pCi/g	J		2.870	pCi/g	J
U-TOTAL	1.860	mg/kg	-		28.400	mg/kg	-		17.200	mg/kg	-

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000534

TABLE F-3A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	SF-SS-19			SF-SS-20			SF-SS-21		
SAMPLE NUMBER	110365	pc ⁻¹ /g	-	110290	pc ⁻¹ /g	-	110307	pc ⁻¹ /g	-
SAMPLING DATE	0 - 0.5			0 - 0.5			0 - 0.5		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.415	pc ⁻¹ /g	-	0.313	pc ⁻¹ /g	-	0.565	pc ⁻¹ /g	-
GROSS ALPHA	28.600	pc ⁻¹ /g	-	42.600	pc ⁻¹ /g	-	50.700	pc ⁻¹ /g	-
GROSS BETA	41.000	pc ⁻¹ /g	-	34.500	pc ⁻¹ /g	-	32.300	pc ⁻¹ /g	-
NP-237	0.110	pc ⁻¹ /g	N	0.253	pc ⁻¹ /g	R	0.056	pc ⁻¹ /g	N
PU-238	0.057	pc ⁻¹ /g	J	0.144	pc ⁻¹ /g	R	0.039	pc ⁻¹ /g	UJ
PU-239/240	0.045	pc ⁻¹ /g	J	0.144	pc ⁻¹ /g	R	0.026	pc ⁻¹ /g	UJ
RA-226	1.430	pc ⁻¹ /g	-	1.060	pc ⁻¹ /g	-	3.240	pc ⁻¹ /g	-
RA-228	1.160	pc ⁻¹ /g	-	1.260	pc ⁻¹ /g	-	1.290	pc ⁻¹ /g	-
RU-106	0.841	pc ⁻¹ /g	UJ	0.759	pc ⁻¹ /g	UJ	0.794	pc ⁻¹ /g	UJ
SR-90	0.481	pc ⁻¹ /g	UJ	0.744	pc ⁻¹ /g	UJ	0.601	pc ⁻¹ /g	UJ
TC-99	0.339	pc ⁻¹ /g	UJ	0.363	pc ⁻¹ /g	UJ	0.362	pc ⁻¹ /g	UJ
TH-228	0.863	pc ⁻¹ /g	-	1.110	pc ⁻¹ /g	R	1.250	pc ⁻¹ /g	R
TH-230	2.330	pc ⁻¹ /g	-	8.090	pc ⁻¹ /g	R	7.840	pc ⁻¹ /g	R
TH-232	0.674	pc ⁻¹ /g	-	1.270	pc ⁻¹ /g	R	1.000	pc ⁻¹ /g	R
TH-TOTAL	6.200	ug/g	-	11.600	ug/g	R	9.140	ug/g	R
U-234	4.260	pc ⁻¹ /g	-	11.560	pc ⁻¹ /g	J	7.930	pc ⁻¹ /g	J
U-235/236	0.166	pc ⁻¹ /g	J	0.470	pc ⁻¹ /g	J	0.458	pc ⁻¹ /g	J
U-238	5.460	pc ⁻¹ /g	-	11.680	pc ⁻¹ /g	J	9.320	pc ⁻¹ /g	J
U-TOTAL	16.300	mg/kg	-	36.400	mg/kg	-	24.500	mg/kg	-

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000535

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FEMPOU02-6 FINAL
January 21, 1995

TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11188 (1976)			1964			1965		
SAMPLE NUMBER	110340			110331			110351		
SAMPLING DATE	0-0.5			0-0.5			0-0.5		
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS
Inorganics									
Aluminum	10700.000	mg/kg	C	-	10700.000	mg/kg	C	-	12100.000
Antimony	1.100	mg/kg	C	R	1.200	mg/kg	C	R	1.200
Arsenic	7.500	mg/kg	C	-	7.900	mg/kg	C	-	4.900
Barium	76.500	mg/kg	C	-	77.200	mg/kg	C	-	86.200
Beryllium	0.870	mg/kg	C	-	0.860	mg/kg	C	-	0.980
Cadmium	1.100	mg/kg	C	U	1.200	mg/kg	C	U	1.200
Calcium	86000.000	mg/kg	C	-	41500.000	mg/kg	C	-	33900.000
Chromium	12.800	mg/kg	C	-	13.100	mg/kg	C	-	15.100
Cobalt	5.800	mg/kg	C	-	7.100	mg/kg	C	-	7.700
Copper	14.300	mg/kg	C	-	16.900	mg/kg	C	-	19.600
Cyanide	0.120	mg/kg	C	-	0.130	mg/kg	C	-	0.140
Iron	17700.000	mg/kg	C	-	18700.000	mg/kg	C	-	20700.000
Lead	14.300	mg/kg	C	-	26.900	mg/kg	C	-	22.100
Magnesium	29700.000	mg/kg	C	-	13700.000	mg/kg	C	-	12800.000
Manganese	478.000	mg/kg	C	-	715.000	mg/kg	C	-	423.000
Mercury	0.120	mg/kg	C	U	0.120	mg/kg	C	U	0.130
Molybdenum	5.100	mg/kg	C	-	5.500	mg/kg	C	-	5.500
Nickel	16.200	mg/kg	C	-	18.200	mg/kg	C	-	20.100
Potassium	1340.000	mg/kg	C	-	1940.000	mg/kg	C	-	2170.000
Selenium	0.480	mg/kg	C	U	0.480	mg/kg	C	U	0.500
Silicon	526.000	mg/kg	C	U	503.000	mg/kg	C	U	606.000
Silver	5.000	mg/kg	C	-	5.300	mg/kg	C	-	6.500
Sodium	120.000	mg/kg	C	-	91.300	mg/kg	C	-	90.200
Thallium	0.480	mg/kg	C	U	0.480	mg/kg	C	U	0.500
Vanadium	26.700	mg/kg	C	-	27.700	mg/kg	C	-	30.800
Zinc	44.400	mg/kg	C	-	55.400	mg/kg	C	-	62.900
Volatile Organics									
1,1,1-Trichloroethane	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000
1,1,2,2-Tetrachloroethane	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000
1,1,2-Trichloroethane	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000
1,1-Dichloroethane	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000
1,1-Dichloroethene	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000
1,2-Dichloroethane	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000
1,2-Dichloroethene	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000
1,2-Dichloropropane	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000
2-Butanone	13.000	ug/kg	C	U	13.000	ug/kg	C	U	14.000
2-Hexanone	13.000	ug/kg	C	U	13.000	ug/kg	C	U	14.000
4-Methyl-2-pentanone	13.000	ug/kg	C	U	13.000	ug/kg	C	U	14.000
Acetone	13.000	ug/kg	C	U	13.000	ug/kg	C	U	41.000
Benzene	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000

TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11188 (1976)			1964			1965					
SAMPLE NUMBER	110340	0-0.5	03/22/93	110331	0-0.5	03/22/93	110351	0-0.5	03/22/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
Bromodichloromethane	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000	ug/kg	C	U
Bromoform	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000	ug/kg	C	U
Bromomethane	13.000	ug/kg	C	UJ	13.000	ug/kg	C	UJ	14.000	ug/kg	C	UJ
Carbon Tetrachloride	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000	ug/kg	C	U
Carbon disulfide	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000	ug/kg	C	U
Chlorobenzene	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000	ug/kg	C	U
Chloroethane	13.000	ug/kg	C	UJ	13.000	ug/kg	C	UJ	14.000	ug/kg	C	UJ
Chloroform	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000	ug/kg	C	U
Chloromethane	13.000	ug/kg	C	U	13.000	ug/kg	C	U	14.000	ug/kg	C	U
Dibromochloromethane	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000	ug/kg	C	U
Ethylbenzene	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000	ug/kg	C	U
Methylene chloride	13.000	ug/kg	C	UJ	13.000	ug/kg	C	UJ	14.000	ug/kg	C	UJ
Styrene	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000	ug/kg	C	U
Tetrachloroethene	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000	ug/kg	C	U
Toluene	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000	ug/kg	C	U
Trichloroethene	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000	ug/kg	C	U
Vinyl Acetate	13.000	ug/kg	C	U	13.000	ug/kg	C	U	14.000	ug/kg	C	U
Vinyl chloride	13.000	ug/kg	C	U	13.000	ug/kg	C	U	14.000	ug/kg	C	U
Xylenes, Total	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000	ug/kg	C	U
cis-1,3-Dichloropropene	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000	ug/kg	C	U
trans-1,3-Dichloropropene	6.000	ug/kg	C	U	6.000	ug/kg	C	U	7.000	ug/kg	C	U
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
1,2-Dichlorobenzene	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
1,2-Diphenylhydrazine	430.000	ug/kg	C	UJ	430.000	ug/kg	C	U	480.000	ug/kg	C	U
1,3-Dichlorobenzene	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
1,4-Dichlorobenzene	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
2,4,5-Trichlorophenol	1000.000	ug/kg	C	U	1000.000	ug/kg	C	U	1200.000	ug/kg	C	U
2,4,6-Trichlorophenol	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
2,4-Dichlorophenol	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
2,4-Dimethylphenol	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
2,4-Dinitrophenol	2100.000	ug/kg	C	UJ	2100.000	ug/kg	C	UJ	2300.000	ug/kg	C	UJ
2,4-Dinitrotoluene	430.000	ug/kg	C	UJ	430.000	ug/kg	C	U	480.000	ug/kg	C	U
2,6-Dinitrotoluene	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	UJ
2-Chloronaphthalene	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
2-Chlorophenol	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
2-Methylnaphthalene	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
2-Methylphenol	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
2-Nitroaniline	1000.000	ug/kg	C	U	1000.000	ug/kg	C	U	1200.000	ug/kg	C	U
2-Nitrophenol	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U

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TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11188 (1976)				1964				1965			
SAMPLE NUMBER	110340	0-0.5	03/22/93		110331	0-0.5	03/22/93		110351	0-0.5	03/22/93	
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
3,3'-Dichlorobenzidine	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
3-Nitroaniline	1000.000	ug/kg	C	U	1000.000	ug/kg	C	U	1200.000	ug/kg	C	U
4,6-Dinitro-2-methylphenol	1000.000	ug/kg	C	UJ	1000.000	ug/kg	C	UJ	1200.000	ug/kg	C	UJ
4-Bromophenyl phenyl ether	430.000	ug/kg	C	UJ	430.000	ug/kg	C	U	480.000	ug/kg	C	U
4-Chloro-3-methylphenol	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
4-Chlorophenylphenyl ether	430.000	ug/kg	C	UJ	430.000	ug/kg	C	U	480.000	ug/kg	C	U
4-Methylphenol	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
4-Nitroaniline	1000.000	ug/kg	C	UJ	1000.000	ug/kg	C	U	1200.000	ug/kg	C	U
4-Nitropheno1	1000.000	ug/kg	C	UJ	1000.000	ug/kg	C	U	1200.000	ug/kg	C	U
Acenaphthene	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Acenaphthylene	55.000	ug/kg	C	J	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Anthracene	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Benzo(a)anthracene	180.000	ug/kg	C	J	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Benzo(a)pyrene	280.000	ug/kg	C	J	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Benzo(b)fluoranthene	240.000	ug/kg	C	J	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Benzo(g,h,i)perylene	210.000	ug/kg	C	J	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Benzo(k)fluoranthene	290.000	ug/kg	C	J	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Benzoic acid	56.000	ug/kg	C	J	270.000	ug/kg	C	J	95.000	ug/kg	C	J
Benzyl alcohol	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Butyl benzyl phthalate	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Carbazole	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Chrysene	240.000	ug/kg	C	J	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Di-n-butyl phthalate	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Di-n-octyl phthalate	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Dibenz(a,h)anthracene	69.000	ug/kg	C	J	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Dibenzofuran	430.000	ug/kg	C	UJ	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Diethyl phthalate	430.000	ug/kg	C	UJ	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Dimethyl phthalate	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Fluoranthen	320.000	ug/kg	C	J	45.000	ug/kg	C	J	480.000	ug/kg	C	U
Fluorene	430.000	ug/kg	C	UJ	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Hexachlorobenzene	430.000	ug/kg	C	UJ	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Hexachlorobutadiene	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Hexachlorocyclopentadiene	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Hexachloroethane	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Indeno(1,2,3-cd)pyrene	210.000	ug/kg	C	J	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Iosphorone	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
N-Nitrosodi-n-propylamine	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
N-Nitrosodimethylamine	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
N-Nitrosodiphenylamine	430.000	ug/kg	C	UJ	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Naphthalene	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Nitrobenzene	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Pentachlorophenol	1000.000	ug/kg	C	U	1000.000	ug/kg	C	U	1200.000	ug/kg	C	U

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TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11188 (1976)				1964				1965			
SAMPLE NUMBER	110340	110331	110351		0-0.5	0-0.5	0-0.5		03/22/93	03/22/93	03/22/93	
SAMPLING DATE												
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
Phenanthrene	81.000	ug/kg	C	J	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Pheno1	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Pyrene	270.000	ug/kg	C	J	430.000	ug/kg	C	U	480.000	ug/kg	C	U
Tributyl phosphate	430.000	ug/kg	C	UJ	430.000	ug/kg	C	U	480.000	ug/kg	C	U
bis(2-Chloroethoxy)methane	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
bis(2-Chloroethyl)ether	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
bis(2-Chloroisopropyl) ether	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
bis(2-Ethylhexyl) phthalate	80.000	ug/kg	C	J	91.000	ug/kg	C	J	110.000	ug/kg	C	J
p-Chloroaniline	430.000	ug/kg	C	U	430.000	ug/kg	C	U	480.000	ug/kg	C	U
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	4.300	ug/kg	C	U	4.300	ug/kg	C	U	4.800	ug/kg	C	U
4,4'-DDE	4.300	ug/kg	C	U	4.300	ug/kg	C	U	4.800	ug/kg	C	U
4,4'-DDT	4.300	ug/kg	C	U	4.300	ug/kg	C	U	4.800	ug/kg	C	U
Aldrin	2.200	ug/kg	C	U	2.200	ug/kg	C	U	2.500	ug/kg	C	U
Aroclor-1016	43.000	ug/kg	C	U	43.000	ug/kg	C	U	48.000	ug/kg	C	U
Aroclor-1221	86.000	ug/kg	C	U	87.000	ug/kg	C	U	97.000	ug/kg	C	U
Aroclor-1232	43.000	ug/kg	C	U	43.000	ug/kg	C	U	48.000	ug/kg	C	U
Aroclor-1242	43.000	ug/kg	C	U	43.000	ug/kg	C	U	48.000	ug/kg	C	U
Aroclor-1248	43.000	ug/kg	C	U	43.000	ug/kg	C	U	48.000	ug/kg	C	U
Aroclor-1254	43.000	ug/kg	C	U	43.000	ug/kg	C	U	48.000	ug/kg	C	U
Aroclor-1260	43.000	ug/kg	C	U	43.000	ug/kg	C	U	48.000	ug/kg	C	U
Dieldrin	4.300	ug/kg	C	U	4.300	ug/kg	C	U	4.800	ug/kg	C	U
Endosulfan II	4.300	ug/kg	C	U	4.300	ug/kg	C	U	4.800	ug/kg	C	U
Endosulfan sulfate	4.300	ug/kg	C	U	4.300	ug/kg	C	U	4.800	ug/kg	C	U
Endosulfan-I	2.200	ug/kg	C	U	2.200	ug/kg	C	U	2.500	ug/kg	C	U
Endrin	4.300	ug/kg	C	U	4.300	ug/kg	C	U	4.800	ug/kg	C	U
Endrin aldehyde	4.300	ug/kg	C	U	4.300	ug/kg	C	U	4.800	ug/kg	C	U
Endrin ketone	5.900	ug/kg	C	J	4.300	ug/kg	C	U	4.800	ug/kg	C	U
Heptachlor	2.200	ug/kg	C	U	2.200	ug/kg	C	U	2.500	ug/kg	C	U
Heptachlor epoxide	2.200	ug/kg	C	U	2.200	ug/kg	C	U	2.500	ug/kg	C	U
Methoxychlor	22.000	ug/kg	C	U	22.000	ug/kg	C	U	25.000	ug/kg	C	U
Toxaphene	220.000	ug/kg	C	U	220.000	ug/kg	C	U	250.000	ug/kg	C	U
alpha-BHC	2.200	ug/kg	C	U	2.200	ug/kg	C	U	2.500	ug/kg	C	U
alpha-Chlordane	2.200	ug/kg	C	U	2.200	ug/kg	C	U	2.500	ug/kg	C	U
beta-BHC	2.200	ug/kg	C	U	2.200	ug/kg	C	U	2.500	ug/kg	C	U
delta-BHC	2.200	ug/kg	C	U	2.200	ug/kg	C	U	2.500	ug/kg	C	U
gamma-BHC (Lindane)	2.200	ug/kg	C	U	2.200	ug/kg	C	U	2.500	ug/kg	C	U
gamma-Chlordane	2.200	ug/kg	C	U	2.200	ug/kg	C	U	2.500	ug/kg	C	U

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TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1966	1967	1968	
SAMPLE NUMBER	110355	110358	110392	
0-0.5	0-0.5	0-0.5	0-0.5	
SAMPLING DATE	03/22/93	03/22/93	03/22/93	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	
Inorganics				
Aluminum	9010.000	mg/kg D -	8260.000	mg/kg C -
Antimony	1.300	mg/kg D R	1.200	mg/kg C R
Arsenic	7.300	mg/kg D -	8.400	mg/kg C -
Barium	125.000	mg/kg D -	57.400	mg/kg C -
Beryllium	0.910	mg/kg D -	0.710	mg/kg C -
Cadmium	1.300	mg/kg D U	1.200	mg/kg C U
Calcium	32900.000	mg/kg D -	58400.000	mg/kg C -
Chromium	11.300	mg/kg D -	10.600	mg/kg C -
Cobalt	13.900	mg/kg D -	6.500	mg/kg C -
Copper	18.300	mg/kg D -	14.500	mg/kg C -
Cyanide	0.180	mg/kg D -	0.130	mg/kg C U
Iron	18000.000	mg/kg D -	16800.000	mg/kg C -
Lead	23.100	mg/kg D J	17.300	mg/kg C J
Magnesium	11900.000	mg/kg D J	17900.000	mg/kg C J
Manganese	1180.000	mg/kg D -	460.000	mg/kg C -
Mercury	0.120	mg/kg D U	0.110	mg/kg C U
Molybdenum	5.500	mg/kg D -	6.200	mg/kg C -
Nickel	22.700	mg/kg D -	16.900	mg/kg C -
Potassium	1530.000	mg/kg D -	1480.000	mg/kg C -
Selenium	0.620	mg/kg D J	0.450	mg/kg C UJ
Silicon	498.000	mg/kg D J	580.000	mg/kg C J
Silver	5.700	mg/kg D -	5.500	mg/kg C -
Sodium	.79.000	mg/kg D -	97.200	mg/kg C -
Thallium	0.540	mg/kg D U	0.450	mg/kg C U
Vanadium	27.100	mg/kg D -	22.500	mg/kg C -
Zinc	47.800	mg/kg D -	44.300	mg/kg C -
Volatile Organics				
1,1,1-Trichloroethane	7.000	ug/kg D U	12.000	ug/kg C U
1,1,2,2-Tetrachloroethane	7.000	ug/kg D U	12.000	ug/kg C U
1,1,2-Trichloroethane	7.000	ug/kg D U	12.000	ug/kg C U
1,1-Dichloroethane	7.000	ug/kg D UJ	12.000	ug/kg C U
1,1-Dichloroethene	7.000	ug/kg D U	12.000	ug/kg C U
1,2-Dichloroethane	7.000	ug/kg D U	12.000	ug/kg C U
1,2-Dichloroethene	7.000	ug/kg D U	12.000	ug/kg C U
1,2-Dichloropropane	7.000	ug/kg D U	12.000	ug/kg C U
2-Butanone	14.000	ug/kg D UJ	12.000	ug/kg C U
2-Hexanone	14.000	ug/kg D U	12.000	ug/kg C U
4-Methyl-2-pentanone	14.000	ug/kg D U	12.000	ug/kg C UJ
Acetone	14.000	ug/kg D U	10.000	ug/kg C UJ
Benzene	7.000	ug/kg D U	12.000	ug/kg C U

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TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1966	1967	1968			
SAMPLE NUMBER	110355	110358	110392			
SAMPLING DATE	0-0.5 03/22/93	0-0.5 03/22/93	0-0.5 03/22/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Volatile Organics						
Bromodichloromethane	7.000	ug/kg D U	12.000	ug/kg C U	7.000	ug/kg C U
Bromoform	7.000	ug/kg D U	12.000	ug/kg C U	7.000	ug/kg C U
Bromomethane	14.000	ug/kg D UJ	12.000	ug/kg C U	13.000	ug/kg C UJ
Carbon Tetrachloride	7.000	ug/kg D U	12.000	ug/kg C U	7.000	ug/kg C U
Carbon disulfide	7.000	ug/kg D U	12.000	ug/kg C U	7.000	ug/kg C U
Chlorobenzene	7.000	ug/kg D U	12.000	ug/kg C U	7.000	ug/kg C U
Chloroethane	14.000	ug/kg D UJ	12.000	ug/kg C U	13.000	ug/kg C UJ
Chloroform	7.000	ug/kg D U	12.000	ug/kg C U	7.000	ug/kg C U
Chloromethane	14.000	ug/kg D U	12.000	ug/kg C UJ	13.000	ug/kg C U
Dibromochloromethane	7.000	ug/kg D U	12.000	ug/kg C U	7.000	ug/kg C U
Ethylbenzene	7.000	ug/kg D U	12.000	ug/kg C U	7.000	ug/kg C U
Methylene chloride	5.000	ug/kg D J	10.000	ug/kg C U	7.000	ug/kg C U
Styrene	7.000	ug/kg D U	12.000	ug/kg C U	7.000	ug/kg C U
Tetrachloroethene	7.000	ug/kg D U	12.000	ug/kg C U	7.000	ug/kg C U
Toluene	7.000	ug/kg D U	12.000	ug/kg C U	7.000	ug/kg C U
Trichloroethene	7.000	ug/kg D U	12.000	ug/kg C U	7.000	ug/kg C U
Vinyl Acetate	14.000	ug/kg D U	12.000	ug/kg C U	13.000	ug/kg C U
Vinyl chloride	14.000	ug/kg D U	12.000	ug/kg C U	13.000	ug/kg C U
Xylenes, Total	7.000	ug/kg D U	12.000	ug/kg C U	7.000	ug/kg C U
cis-1,3-Dichloropropene	7.000	ug/kg D U	12.000	ug/kg C U	7.000	ug/kg C U
trans-1,3-Dichloropropene	7.000	ug/kg D U	12.000	ug/kg C U	7.000	ug/kg C U
Semivolatile Organics						
1,2,4-Trichlorobenzene	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
1,2-Dichlorobenzene	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
1,2-Diphenylhydrazine	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
1,3-Dichlorobenzene	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
1,4-Dichlorobenzene	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
2,4,5-Trichlorophenol	1100.000	ug/kg D U	1000.000	ug/kg C U	1000.000	ug/kg C U
2,4,6-Trichlorophenol	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
2,4-Dichlorophenol	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
2,4-Dimethylphenol	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
2,4-Dinitrophenol	2200.000	ug/kg D UJ	2100.000	ug/kg C U	2100.000	ug/kg C UJ
2,4-Dinitrotoluene	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
2,6-Dinitrotoluene	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
2-Chloronaphthalene	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
2-Chlorophenol	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
2-Methylnaphthalene	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
2-Methylphenol	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
2-Nitroaniline	1100.000	ug/kg D U	1000.000	ug/kg C U	1000.000	ug/kg C U
2-Nitrophenol	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U

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TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1966	1967	1968			
SAMPLE NUMBER	110355	110358	110392			
SAMPLING DATE	0-0.5 03/22/93	0-0.5 03/22/93	0-0.5 03/22/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Semivolatile Organics						
3,3'-Dichlorobenzidine	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
3-Nitroaniline	1100.000	ug/kg D U	1000.000	ug/kg C U	1000.000	ug/kg C U
4,6-Dinitro-2-methylphenol	1100.000	ug/kg D UJ	1000.000	ug/kg C UJ	1000.000	ug/kg C UJ
4-Bromophenyl phenyl ether	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
4-Chloro-3-methylphenol	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
4-Chlorophenylphenyl ether	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
4-Methylphenol	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
4-Nitroaniline	1100.000	ug/kg D U	1000.000	ug/kg C U	1000.000	ug/kg C U
4-Nitrophenol	1100.000	ug/kg D U	1000.000	ug/kg C U	1000.000	ug/kg C U
Acenaphthene	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Acenaphthylene	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Anthracene	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Benzo(a)anthracene	460.000	ug/kg D U	430.000	ug/kg C U	51.000	ug/kg C J
Benzo(a)pyrene	460.000	ug/kg D U	430.000	ug/kg C U	55.000	ug/kg C J
Benzo(b)fluoranthene	460.000	ug/kg D U	430.000	ug/kg C U	62.000	ug/kg C J
Benzo(g,h,i)perylene	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Benzo(k)fluoranthene	460.000	ug/kg D U	430.000	ug/kg C U	53.000	ug/kg C J
Benzoic acid	2200.000	ug/kg D UJ	72.000	ug/kg C J	60.000	ug/kg C J
Benzyl alcohol	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Butyl benzyl phthalate	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Carbazole	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Chrysene	460.000	ug/kg D U	430.000	ug/kg C U	70.000	ug/kg C J
Di-n-butyl phthalate	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Di-n-octyl phthalate	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Dibenzo(a,h)anthracene	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Dibenzofuran	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Diethyl phthalate	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Dimethyl phthalate	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Fluoranthene	460.000	ug/kg D U	430.000	ug/kg C U	110.000	ug/kg C J
Fluorene	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Hexachlorobenzene	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Hexachlorobutadiene	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Hexachlorocyclopentadiene	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Hexachloroethane	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Indeno(1,2,3-cd)pyrene	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Isophorone	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
N-Nitroso-di-n-propylamine	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
N-Nitrosodimethylamine	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
N-Nitrosodiphenylamine	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Naphthalene	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Nitrobenzene	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Pentachlorophenol	1100.000	ug/kg D U	1000.000	ug/kg C U	1000.000	ug/kg C U

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TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1966	1967	1968			
SAMPLE NUMBER	110355	110358	110392			
SAMPLING DATE	0-0.5 03/22/93	0-0.5 03/22/93	0-0.5 03/22/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Phenanthrene	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Phenol	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
Pyrene	460.000	ug/kg D U	430.000	ug/kg C U	86.000	ug/kg C J
Tributyl phosphate	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
bis(2-Chloroethoxy)methane	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
bis(2-Chloroethyl)ether	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
bis(2-Chloroisopropyl) ether	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
bis(2-Ethylhexyl) phthalate	91.000	ug/kg D J	73.000	ug/kg C J	87.000	ug/kg C J
p-Chloroaniline	460.000	ug/kg D U	430.000	ug/kg C U	430.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	4.600	ug/kg D U	4.300	ug/kg C U	4.300	ug/kg C U
4,4'-DDE	4.600	ug/kg D U	4.300	ug/kg C U	4.300	ug/kg C U
4,4'-DDT	4.600	ug/kg D U	4.300	ug/kg C U	4.300	ug/kg C U
Aldrin	2.400	ug/kg D U	2.200	ug/kg C U	2.200	ug/kg C U
Aroclor-1016	46.000	ug/kg D U	43.000	ug/kg C U	43.000	ug/kg C U
Aroclor-1221	93.000	ug/kg D U	86.000	ug/kg C U	87.000	ug/kg C U
Aroclor-1232	46.000	ug/kg D U	43.000	ug/kg C U	43.000	ug/kg C U
Aroclor-1242	46.000	ug/kg D U	43.000	ug/kg C U	43.000	ug/kg C U
Aroclor-1248	46.000	ug/kg D U	43.000	ug/kg C U	43.000	ug/kg C U
Aroclor-1254	46.000	ug/kg D U	43.000	ug/kg C U	43.000	ug/kg C U
Aroclor-1260	46.000	ug/kg D U	43.000	ug/kg C U	43.000	ug/kg C U
Dieldrin	4.600	ug/kg D U	4.300	ug/kg C U	4.300	ug/kg C U
Endosulfan II	4.600	ug/kg D U	4.300	ug/kg C U	4.300	ug/kg C U
Endosulfan sulfate	4.600	ug/kg D U	4.300	ug/kg C U	4.300	ug/kg C U
Endosulfan-I	4.600	ug/kg D U	4.300	ug/kg C U	4.300	ug/kg C U
Endrin	2.400	ug/kg D U	2.200	ug/kg C U	2.200	ug/kg C U
Endrin aldehyde	4.600	ug/kg D U	4.300	ug/kg C U	4.300	ug/kg C U
Endrin ketone	4.600	ug/kg D U	4.300	ug/kg C U	4.300	ug/kg C U
Heptachlor	2.400	ug/kg D U	2.200	ug/kg C U	2.200	ug/kg C U
Heptachlor epoxide	2.400	ug/kg D U	2.200	ug/kg C U	2.200	ug/kg C U
Methoxychlor	24.000	ug/kg D U	22.000	ug/kg C U	22.000	ug/kg C U
Toxaphene	240.000	ug/kg D U	220.000	ug/kg C U	220.000	ug/kg C U
alpha-BHC	2.400	ug/kg D U	2.200	ug/kg C U	2.200	ug/kg C U
alpha-Chlordane	2.400	ug/kg D U	2.200	ug/kg C U	2.200	ug/kg C U
beta-BHC	2.400	ug/kg D U	2.200	ug/kg C U	2.200	ug/kg C U
delta-BHC	2.400	ug/kg D U	2.200	ug/kg C U	2.200	ug/kg C U
gamma-BHC (Lindane)	2.400	ug/kg D U	2.200	ug/kg C U	2.200	ug/kg C U
gamma-Chlordane	2.400	ug/kg D U	2.200	ug/kg C U	2.200	ug/kg C U

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000543

TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1969	1970	1971
SAMPLE NUMBER	110338	110372	110324
SAMPLING DATE	0-0.5 03/22/93	0-0.5 03/22/92	0-0.5 03/22/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Inorganics</u>			
Aluminum	14900.000	mg/kg C -	10400.000
Antimony	1.400	mg/kg C R	1.900
Arsenic	9.100	mg/kg C -	7.700
Barium	98.700	mg/kg C -	82.800
Beryllium	1.500	mg/kg C -	0.680
Cadmium	1.400	mg/kg C U	0.940
Calcium	60900.000	mg/kg C -	40400.000
Chromium	16.200	mg/kg C -	13.300
Cobalt	7.600	mg/kg C -	7.600
Copper	16.100	mg/kg C -	18.900
Cyanide	0.150	mg/kg C U	0.180
Iron	19500.000	mg/kg C -	19900.000
Lead	15.100	mg/kg C J	30.000
Magnesium	17600.000	mg/kg C J	13000.000
Manganese	943.000	mg/kg C -	609.000
Mercury	0.140	mg/kg C U	0.130
Molybdenum	5.600	mg/kg C -	5.200
Nickel	17.200	mg/kg C -	19.000
Potassium	1550.000	mg/kg C -	1730.000
Selenium	0.620	mg/kg C J	0.440
Silicon	652.000	mg/kg C J	474.000
Silver	5.800	mg/kg C -	6.100
Sodium	177.000	mg/kg C -	78.800
Thallium	0.540	mg/kg C U	0.440
Vanadium	30.200	mg/kg C -	28.600
Zinc	48.400	mg/kg C -	62.100
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	6.000	ug/kg C U	7.000
1,1,2,2-Tetrachloroethane	6.000	ug/kg C U	7.000
1,1,2-Trichloroethane	6.000	ug/kg C U	7.000
1,1-Dichloroethane	6.000	ug/kg C UJ	7.000
1,1-Dichloroethene	6.000	ug/kg C U	7.000
1,2-Dichloroethane	6.000	ug/kg C U	7.000
1,2-Dichloroethene	6.000	ug/kg C U	7.000
1,2-Dichloropropane	6.000	ug/kg C U	7.000
2-Butanone	12.000	ug/kg C UJ	14.000
2-Hexanone	12.000	ug/kg C U	14.000
4-Methyl-2-pentanone	12.000	ug/kg C U	14.000
Acetone	12.000	ug/kg C U	68.000
Benzene	6.000	ug/kg C U	7.000

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TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1969				1970				1971			
SAMPLE NUMBER	110338				110372				110324			
SAMPLING DATE	0-0.5				0-0.5				0-0.5			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
Bromodichloromethane	6.000	ug/kg	C	U	7.000	ug/kg	C	U	6.000	ug/kg	C	U
Bromoform	6.000	ug/kg	C	U	7.000	ug/kg	C	U	6.000	ug/kg	C	U
Bromomethane	12.000	ug/kg	C	UJ	14.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ
Carbon Tetrachloride	6.000	ug/kg	C	U	7.000	ug/kg	C	U	6.000	ug/kg	C	U
Carbon disulfide	6.000	ug/kg	C	U	7.000	ug/kg	C	U	6.000	ug/kg	C	U
Chlorobenzene	6.000	ug/kg	C	U	7.000	ug/kg	C	U	6.000	ug/kg	C	U
Chloroethane	12.000	ug/kg	C	UJ	14.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ
Chloroform	6.000	ug/kg	C	U	7.000	ug/kg	C	U	6.000	ug/kg	C	U
Chloromethane	12.000	ug/kg	C	U	14.000	ug/kg	C	U	12.000	ug/kg	C	U
Dibromochloromethane	6.000	ug/kg	C	U	7.000	ug/kg	C	U	6.000	ug/kg	C	U
Ethylbenzene	6.000	ug/kg	C	U	7.000	ug/kg	C	U	6.000	ug/kg	C	U
Methylene chloride	12.000	ug/kg	C	UJ	14.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ
Styrene	6.000	ug/kg	C	U	7.000	ug/kg	C	U	6.000	ug/kg	C	U
Tetrachloroethene	6.000	ug/kg	C	U	7.000	ug/kg	C	U	6.000	ug/kg	C	U
Toluene	6.000	ug/kg	C	U	2.000	ug/kg	C	U	6.000	ug/kg	C	U
Trichloroethene	6.000	ug/kg	C	U	7.000	ug/kg	C	U	6.000	ug/kg	C	U
Vinyl Acetate	12.000	ug/kg	C	U	14.000	ug/kg	C	U	12.000	ug/kg	C	U
Vinyl chloride	12.000	ug/kg	C	U	14.000	ug/kg	C	U	12.000	ug/kg	C	U
Xylenes, Total	6.000	ug/kg	C	U	7.000	ug/kg	C	U	6.000	ug/kg	C	U
cis-1,3-Dichloropropene	6.000	ug/kg	C	U	7.000	ug/kg	C	U	6.000	ug/kg	C	U
trans-1,3-Dichloropropene	6.000	ug/kg	C	U	7.000	ug/kg	C	U	6.000	ug/kg	C	U
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
1,2-Dichlorobenzene	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
1,2-Diphenylhydrazine	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
1,3-Dichlorobenzene	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
1,4-Dichlorobenzene	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
2,4,5-Trichlorophenol	1200.000	ug/kg	C	U	1100.000	ug/kg	C	U	1000.000	ug/kg	C	U
2,4,6-Trichlorophenol	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
2,4-Dichlorophenol	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
2,4-Dimethylphenol	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
2,4-Dinitrophenol	2400.000	ug/kg	C	UJ	2200.000	ug/kg	C	UJ	2000.000	ug/kg	C	UJ
2,4-Dinitrotoluene	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
2,6-Dinitrotoluene	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
2-Chloronaphthalene	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
2-Chlorophenol	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
2-Methylnaphthalene	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
2-Methylphenol	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
2-Nitroaniline	1200.000	ug/kg	C	U	1100.000	ug/kg	C	U	1000.000	ug/kg	C	U
2-Nitrophenol	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U

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000545

TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
3,3'-Dichlorobenzidine	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
3-Nitroaniline	1200.000	ug/kg	C	U	1100.000	ug/kg	C	U	1000.000	ug/kg	C	U
4,6-Dinitro-2-methylphenol	1200.000	ug/kg	C	UJ	1100.000	ug/kg	C	UJ	1000.000	ug/kg	C	UJ
4-Bromophenyl phenyl ether	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
4-Chloro-3-methylphenol	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
4-Chlorophenylphenyl ether	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
4-Methylphenol	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
4-Nitroaniline	1200.000	ug/kg	C	U	1100.000	ug/kg	C	U	1000.000	ug/kg	C	U
4-Nitrophenol	1200.000	ug/kg	C	U	1100.000	ug/kg	C	U	1000.000	ug/kg	C	U
Acenaphthene	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
Acenaphthylene	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
Anthracene	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
Benzo(a)anthracene	500.000	ug/kg	C	U	58.000	ug/kg	C	J	44.000	ug/kg	C	J
Benzo(a)pyrene	500.000	ug/kg	C	U	67.000	ug/kg	C	J	420.000	ug/kg	C	U
Benzo(b)fluoranthene	500.000	ug/kg	C	U	74.000	ug/kg	C	J	420.000	ug/kg	C	U
Benzo(g,h,i)perylene	160.000	ug/kg	C	J	51.000	ug/kg	C	J	420.000	ug/kg	C	U
Benzo(k)fluoranthene	500.000	ug/kg	C	U	69.000	ug/kg	C	J	52.000	ug/kg	C	J
Benzoic acid	62.000	ug/kg	C	J	63.000	ug/kg	C	J	2000.000	ug/kg	C	UJ
Benzyl alcohol	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
Butyl benzyl phthalate	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
Carbazole	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
Chrysene	500.000	ug/kg	C	U	83.000	ug/kg	C	J	63.000	ug/kg	C	J
Di-n-butyl phthalate	550.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
Di-n-octyl phthalate	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
Dibenzo(a,h)anthracene	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
Dibenzofuran	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
Diethyl phthalate	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
Dimethyl phthalate	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
Fluoranthene	53.000	ug/kg	C	J	130.000	ug/kg	C	J	120.000	ug/kg	C	J
Fluorene	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
Hexachlorobenzene	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
Hexachlorobutadiene	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
Hexachlorocyclopentadiene	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
Hexachloroethane	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
Indeno(1,2,3-cd)pyrene	500.000	ug/kg	C	U	52.000	ug/kg	C	J	420.000	ug/kg	C	U
Isophorone	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
N-Nitroso-di-n-propylamine	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
N-Nitrosodimethylamine	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
N-Nitrosodiphenylamine	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
Naphthalene	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
Nitrobenzene	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
Pentachlorophenol	1200.000	ug/kg	C	U	1100.000	ug/kg	C	U	1000.000	ug/kg	C	U

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TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1969				1970				1971			
SAMPLE NUMBER	110338				110372				110324			
SAMPLING DATE	0-0.5				0-0.5				0-0.5			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
Phenanthrene	500.000	ug/kg	C	U	48.000	ug/kg	C	J	67.000	ug/kg	C	J
Phenol	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
Pyrene	500.000	ug/kg	C	U	100.000	ug/kg	C	J	93.000	ug/kg	C	J
Tributyl phosphate	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
bis(2-Chloroethoxy)methane	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
bis(2-Chloroethyl)ether	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
bis(2-Chloroisopropyl) ether	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
bis(2-Ethylhexyl) phthalate	89.000	ug/kg	C	J	91.000	ug/kg	C	J	80.000	ug/kg	C	J
p-Chloroaniline	500.000	ug/kg	C	U	450.000	ug/kg	C	U	420.000	ug/kg	C	U
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	5.000	ug/kg	C	U	4.500	ug/kg	C	U	4.100	ug/kg	C	U
4,4'-DDE	5.000	ug/kg	C	U	4.500	ug/kg	C	U	4.100	ug/kg	C	U
4,4'-DDT	5.000	ug/kg	C	U	4.500	ug/kg	C	U	4.100	ug/kg	C	U
Aldrin	2.600	ug/kg	C	U	2.300	ug/kg	C	U	2.100	ug/kg	C	U
Aroclor-1016	50.000	ug/kg	C	U	45.000	ug/kg	C	U	41.000	ug/kg	C	U
Aroclor-1221	100.000	ug/kg	C	U	92.000	ug/kg	C	U	84.000	ug/kg	C	U
Aroclor-1232	50.000	ug/kg	C	U	45.000	ug/kg	C	U	41.000	ug/kg	C	U
Aroclor-1242	50.000	ug/kg	C	U	45.000	ug/kg	C	U	41.000	ug/kg	C	U
Aroclor-1248	50.000	ug/kg	C	U	45.000	ug/kg	C	U	41.000	ug/kg	C	U
Aroclor-1254	50.000	ug/kg	C	U	45.000	ug/kg	C	U	41.000	ug/kg	C	U
Aroclor-1260	50.000	ug/kg	C	U	45.000	ug/kg	C	U	41.000	ug/kg	C	U
Dieldrin	5.000	ug/kg	C	U	4.500	ug/kg	C	U	4.100	ug/kg	C	U
Endosulfan II	5.000	ug/kg	C	U	4.500	ug/kg	C	U	4.100	ug/kg	C	U
Endosulfan sulfate	5.000	ug/kg	C	U	4.500	ug/kg	C	U	4.100	ug/kg	C	U
Endosulfan-I	2.600	ug/kg	C	U	2.300	ug/kg	C	U	2.100	ug/kg	C	U
Endrin	5.000	ug/kg	C	U	4.500	ug/kg	C	U	4.100	ug/kg	C	U
Endrin aldehyde	5.000	ug/kg	C	U	4.500	ug/kg	C	U	4.100	ug/kg	C	U
Endrin ketone	5.000	ug/kg	C	U	4.500	ug/kg	C	U	4.100	ug/kg	C	U
Heptachlor	2.600	ug/kg	C	U	2.300	ug/kg	C	U	2.100	ug/kg	C	U
Heptachlor epoxide	2.600	ug/kg	C	U	2.300	ug/kg	C	U	2.100	ug/kg	C	U
Methoxychlor	26.000	ug/kg	C	U	23.000	ug/kg	C	U	21.000	ug/kg	C	U
Toxaphene	260.000	ug/kg	C	U	230.000	ug/kg	C	U	210.000	ug/kg	C	U
alpha-BHC	2.600	ug/kg	C	U	2.300	ug/kg	C	U	2.100	ug/kg	C	U
alpha-Chlordane	2.600	ug/kg	C	U	2.300	ug/kg	C	U	2.100	ug/kg	C	U
beta-BHC	2.600	ug/kg	C	U	2.300	ug/kg	C	U	2.100	ug/kg	C	U
delta-BHC	2.600	ug/kg	C	U	2.300	ug/kg	C	U	2.100	ug/kg	C	U
gamma-BHC (Lindane)	2.600	ug/kg	C	U	2.300	ug/kg	C	U	2.100	ug/kg	C	U
gamma-Chlordane	2.600	ug/kg	C	U	2.300	ug/kg	C	U	2.100	ug/kg	C	U

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TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1972	1975	1977
SAMPLE NUMBER	110378	110385	110304
SAMPLING DATE	0-0.5 03/19/93	0-0.5 03/22/93	0-0.5 03/19/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Inorganics</u>			
Aluminum	8670.000	mg/kg C -	9710.000
Antimony	1.200	mg/kg C UJ	1.200
Arsenic	7.000	mg/kg C -	7.000
Barium	63.600	mg/kg C -	76.700
Beryllium	0.520	mg/kg C -	0.610
Cadmium	1.200	mg/kg C U	0.960
Calcium	64800.000	mg/kg C -	68100.000
Chromium	17.300	mg/kg C -	11.600
Cobalt	6.900	mg/kg C -	7.300
Copper	18.400	mg/kg C -	15.100
Cyanide	0.210	mg/kg C -	0.140
Iron	14800.000	mg/kg C -	18500.000
Lead	22.500	mg/kg C -	19.200
Magnesium	21700.000	mg/kg C -	19800.000
Manganese	536.000	mg/kg C -	576.000
Mercury	0.110	mg/kg C UJ	0.120
Molybdenum	4.800	mg/kg C -	5.300
Nickel	16.900	mg/kg C -	17.800
Potassium	1420.000	mg/kg C -	1160.000
Selenium	0.430	mg/kg C U	0.720
Silicon	993.000	mg/kg C J	406.000
Silver	3.900	mg/kg C J	5.200
Sodium	122.000	mg/kg C -	103.000
Thallium	0.430	mg/kg C U	0.490
Vanadium	20.800	mg/kg C -	26.100
Zinc	47.700	mg/kg C -	45.500
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	12.000	ug/kg C U	6.000
1,1,2,2-Tetrachloroethane	12.000	ug/kg C U	6.000
1,1,2-Trichloroethane	12.000	ug/kg C U	6.000
1,1-Dichloroethane	12.000	ug/kg C U	6.000
1,1-Dichloroethene	12.000	ug/kg C U	6.000
1,2-Dichloroethane	12.000	ug/kg C U	6.000
1,2-Dichloroethene	12.000	ug/kg C U	6.000
1,2-Dichloropropane	12.000	ug/kg C U	6.000
2-Butanone	12.000	ug/kg C U	12.000
2-Hexanone	12.000	ug/kg C U	12.000
4-Methyl-2-pentanone	12.000	ug/kg C U	12.000
Acetone	12.000	ug/kg C UJ	19.000
Benzene	12.000	ug/kg C U	6.000

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TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1972	1975	1977			
SAMPLE NUMBER	110378	110385	110304			
SAMPLING DATE	0-0.5 03/19/93	0-0.5 03/22/93	0-0.5 03/19/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	12.000	ug/kg C U	6.000	ug/kg D U	12.000	ug/kg C U
Bromoform	12.000	ug/kg C U	6.000	ug/kg D U	12.000	ug/kg C U
Bromomethane	12.000	ug/kg C U	12.000	ug/kg D UJ	12.000	ug/kg C U
Carbon Tetrachloride	12.000	ug/kg C U	6.000	ug/kg D U	12.000	ug/kg C U
Carbon disulfide	12.000	ug/kg C U	6.000	ug/kg D U	12.000	ug/kg C U
Chlorobenzene	12.000	ug/kg C U	6.000	ug/kg D U	12.000	ug/kg C U
Chloroethane	12.000	ug/kg C U	12.000	ug/kg D UJ	12.000	ug/kg C U
Chloroform	12.000	ug/kg C U	6.000	ug/kg D U	12.000	ug/kg C U
Chloromethane	12.000	ug/kg C R	12.000	ug/kg D U	12.000	ug/kg C R
Dibromochloromethane	12.000	ug/kg C U	6.000	ug/kg D U	12.000	ug/kg C U
Ethylbenzene	12.000	ug/kg C U	6.000	ug/kg D U	12.000	ug/kg C U
Methylene chloride	12.000	ug/kg C U	3.000	ug/kg D U	12.000	ug/kg C UJ
Styrene	12.000	ug/kg C U	6.000	ug/kg D U	12.000	ug/kg C U
Tetrachloroethene	12.000	ug/kg C U	6.000	ug/kg D U	12.000	ug/kg C U
Toluene	12.000	ug/kg C U	6.000	ug/kg D U	12.000	ug/kg C U
Trichloroethene	12.000	ug/kg C U	6.000	ug/kg D U	12.000	ug/kg C U
Vinyl Acetate	12.000	ug/kg C U	12.000	ug/kg D U	12.000	ug/kg C UJ
Vinyl chloride	12.000	ug/kg C U	12.000	ug/kg D U	12.000	ug/kg C U
Xylenes, Total	12.000	ug/kg C U	6.000	ug/kg D U	12.000	ug/kg C U
cis-1,3-Dichloropropene	12.000	ug/kg C U	6.000	ug/kg D U	12.000	ug/kg C U
trans-1,3-Dichloropropene	12.000	ug/kg C U	6.000	ug/kg D U	12.000	ug/kg C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	4000.000	ug/kg C U	410.000	ug/kg D U	400.000	ug/kg C U
1,2-Dichlorobenzene	4000.000	ug/kg C U	410.000	ug/kg D U	400.000	ug/kg C U
1,2-Diphenylhydrazine	NA		410.000	ug/kg D U	NA	
1,3-Dichlorobenzene	4000.000	ug/kg C U	410.000	ug/kg D U	400.000	ug/kg C U
1,4-Dichlorobenzene	4000.000	ug/kg C U	410.000	ug/kg D U	400.000	ug/kg C U
2,4,5-Trichlorophenol	9600.000	ug/kg C U	1000.000	ug/kg D U	980.000	ug/kg C U
2,4,6-Trichlorophenol	4000.000	ug/kg C U	410.000	ug/kg D U	400.000	ug/kg C U
2,4-Dichlorophenol	4000.000	ug/kg C U	410.000	ug/kg D U	400.000	ug/kg C U
2,4-Dimethylphenol	4000.000	ug/kg C U	410.000	ug/kg D U	400.000	ug/kg C U
2,4-Dinitrophenol	19000.000	ug/kg C R UJ	2000.000	ug/kg D U	2000.000	ug/kg C R
2,4-Dinitrotoluene	4000.000	ug/kg C UJ	410.000	ug/kg D U	400.000	ug/kg C U
2,6-Dinitrotoluene	4000.000	ug/kg C UJ	410.000	ug/kg D U	400.000	ug/kg C UJ
2-Chloronaphthalene	4000.000	ug/kg C U	410.000	ug/kg D U	400.000	ug/kg C U
2-Chlorophenol	4000.000	ug/kg C U	410.000	ug/kg D U	400.000	ug/kg C U
2-Methylnaphthalene	4000.000	ug/kg C U	410.000	ug/kg D U	400.000	ug/kg C U
2-Methylphenol	4000.000	ug/kg C U	410.000	ug/kg D U	400.000	ug/kg C U
2-Nitroaniline	9600.000	ug/kg C U	1000.000	ug/kg D U	980.000	ug/kg C U
2-Nitrophenol	4000.000	ug/kg C U	410.000	ug/kg D U	400.000	ug/kg C U

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000549

TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
3,3'-Dichlorobenzidine	4000.000	ug/kg	C	U	410.000	ug/kg	D	U	400.000	ug/kg	C	U
3-Nitroaniline	9600.000	ug/kg	C	U	1000.000	ug/kg	D	U	980.000	ug/kg	C	U
4,6-Dinitro-2-methylphenol	9600.000	ug/kg	C	R	1000.000	ug/kg	D	UJ	980.000	ug/kg	C	R
4-Bromophenyl phenyl ether	4000.000	ug/kg	C	U	410.000	ug/kg	D	U	400.000	ug/kg	C	U
4-Chloro-3-methylphenol	4000.000	ug/kg	C	U	410.000	ug/kg	D	U	400.000	ug/kg	C	U
4-Chlorophenylphenyl ether	4000.000	ug/kg	C	U	410.000	ug/kg	D	U	400.000	ug/kg	C	U
4-Methylphenol	4000.000	ug/kg	C	U	410.000	ug/kg	D	U	400.000	ug/kg	C	U
4-Nitroaniline	9600.000	ug/kg	C	U	1000.000	ug/kg	D	U	980.000	ug/kg	C	U
4-Nitrophenol	9600.000	ug/kg	C	R	1000.000	ug/kg	D	U	980.000	ug/kg	C	U
Acenaphthene	4000.000	ug/kg	C	U	410.000	ug/kg	D	U	400.000	ug/kg	C	U
Acenaphthylene	1200.000	ug/kg	C	JJ	410.000	ug/kg	D	U	130.000	ug/kg	C	JJ
Anthracene	730.000	ug/kg	C	JJ	410.000	ug/kg	D	U	130.000	ug/kg	C	-
Benzo(a)anthracene	5500.000	ug/kg	C	-	410.000	ug/kg	D	-	630.000	ug/kg	C	-
Benzo(a)pyrene	9400.000	ug/kg	C	-	410.000	ug/kg	D	-	800.000	ug/kg	C	-
Benzo(b)fluoranthene	6200.000	ug/kg	C	-	410.000	ug/kg	D	-	670.000	ug/kg	C	-
Benzo(g,h,i)perylene	6200.000	ug/kg	C	-	410.000	ug/kg	D	-	650.000	ug/kg	C	-
Benzo(k)fluoranthene	7300.000	ug/kg	C	-	410.000	ug/kg	D	-	710.000	ug/kg	C	-
Benzoic acid	19000.000	ug/kg	C	R	2000.000	ug/kg	D	UJ	2000.000	ug/kg	C	R
Benzyl alcohol	4000.000	ug/kg	C	R	410.000	ug/kg	D	U	400.000	ug/kg	C	R
Butyl benzyl phthalate	4000.000	ug/kg	C	U	410.000	ug/kg	D	U	400.000	ug/kg	C	U
Carbazole	4000.000	ug/kg	C	U	410.000	ug/kg	D	U	67.000	ug/kg	C	J
Chrysene	6000.000	ug/kg	C	-	410.000	ug/kg	D	U	750.000	ug/kg	C	-
Di-n-butyl phthalate	4000.000	ug/kg	C	U	410.000	ug/kg	D	U	400.000	ug/kg	C	U
Di-n-octyl phthalate	4000.000	ug/kg	C	UJ	410.000	ug/kg	D	U	400.000	ug/kg	C	UJ
Dibenz(a,h)anthracene	1900.000	ug/kg	C	JJ	410.000	ug/kg	D	U	230.000	ug/kg	C	JJ
Dibenzofuran	4000.000	ug/kg	C	U	410.000	ug/kg	D	U	400.000	ug/kg	C	U
Diethyl phthalate	4000.000	ug/kg	C	U	410.000	ug/kg	D	U	400.000	ug/kg	C	U
Dimethyl phthalate	4000.000	ug/kg	C	U	410.000	ug/kg	D	U	400.000	ug/kg	C	U
Fluoranthene	9200.000	ug/kg	C	U	48.000	ug/kg	D	JJ	1000.000	ug/kg	C	-
Fluorene	4000.000	ug/kg	C	-	410.000	ug/kg	D	U	400.000	ug/kg	C	U
Hexachlorobenzene	4000.000	ug/kg	C	U	410.000	ug/kg	D	U	400.000	ug/kg	C	U
Hexachlorobutadiene	4000.000	ug/kg	C	U	410.000	ug/kg	D	U	400.000	ug/kg	C	U
Hexachlorocyclopentadiene	4000.000	ug/kg	C	UJ	410.000	ug/kg	D	U	400.000	ug/kg	C	U
Hexachlorosthane	4000.000	ug/kg	C	U	410.000	ug/kg	D	U	400.000	ug/kg	C	U
Indeno(1,2,3-cd)pyrene	6000.000	ug/kg	C	-	410.000	ug/kg	D	U	620.000	ug/kg	C	-
Isophorone	4000.000	ug/kg	C	U	410.000	ug/kg	D	U	400.000	ug/kg	C	JJ
N-Nitroso-di-n-propylamine	4000.000	ug/kg	C	U	410.000	ug/kg	D	U	400.000	ug/kg	C	U
N-Nitrosodimethylamine	NA				410.000	ug/kg	D	U	NA			
N-Nitrosodiphenylamine	4000.000	ug/kg	C	U	410.000	ug/kg	D	U	400.000	ug/kg	C	U
Naphthalene	4000.000	ug/kg	C	U	410.000	ug/kg	D	U	400.000	ug/kg	C	U
Nitrobenzene	4000.000	ug/kg	C	U	410.000	ug/kg	D	U	400.000	ug/kg	C	U
Pentachlorophenol	9600.000	ug/kg	C	UJ	1000.000	ug/kg	D	U	980.000	ug/kg	C	UJ

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000550

TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1972	1975	1977			
SAMPLE NUMBER	110378	110385	110304			
SAMPLING DATE	0-0.5 03/19/93	0-0.5 03/22/93	0-0.5 03/19/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Phenanthrene	1200.000	ug/kg C J	410.000	ug/kg D U	380.000	ug/kg C J
Phenol	4000.000	ug/kg C U	410.000	ug/kg D U	400.000	ug/kg C U
Pyrene	8200.000	ug/kg C -	410.000	ug/kg D U	930.000	ug/kg C -
Tributyl phosphate	NA		410.000	ug/kg D U	NA	
bis(2-Chloroethoxy)methane	4000.000	ug/kg C U	410.000	ug/kg D U	400.000	ug/kg C U
bis(2-Chloroethyl)ether	4000.000	ug/kg C U	410.000	ug/kg D U	400.000	ug/kg C U
bis(2-Chloroisopropyl) ether	4000.000	ug/kg C UJ	410.000	ug/kg D U	400.000	ug/kg C UJ
bis(2-Ethylhexyl) phthalate	4000.000	ug/kg C U	64.000	ug/kg D J	66.000	ug/kg C J
p-Chloroaniline	4000.000	ug/kg C U	410.000	ug/kg D U	400.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	4.100	ug/kg C U	4.100	ug/kg D U	4.000	ug/kg C U
4,4'-DDE	4.100	ug/kg C U	4.100	ug/kg D U	4.000	ug/kg C U
4,4'-DDT	4.100	ug/kg C U	4.100	ug/kg D U	4.000	ug/kg C U
Aldrin	2.100	ug/kg C U	2.100	ug/kg D U	2.100	ug/kg C U
Aroclor-1016	41.000	ug/kg C U	41.000	ug/kg D U	40.000	ug/kg C U
Aroclor-1221	82.000	ug/kg C U	84.000	ug/kg D U	82.000	ug/kg C U
Aroclor-1232	41.000	ug/kg C U	41.000	ug/kg D U	40.000	ug/kg C U
Aroclor-1242	41.000	ug/kg C U	41.000	ug/kg D U	40.000	ug/kg C U
Aroclor-1248	41.000	ug/kg C U	41.000	ug/kg D U	40.000	ug/kg C U
Aroclor-1254	41.000	ug/kg C U	41.000	ug/kg D U	89.000	ug/kg C -
Aroclor-1260	41.000	ug/kg C U	41.000	ug/kg D U	40.000	ug/kg C U
Dieldrin	9.700	ug/kg C -	4.100	ug/kg D U	4.000	ug/kg C U
Endosulfan II	4.100	ug/kg C U	4.100	ug/kg D U	4.000	ug/kg C U
Endosulfan sulfate	4.100	ug/kg C U	4.100	ug/kg D U	4.000	ug/kg C U
Endosulfan-I	2.100	ug/kg C U	2.100	ug/kg D U	2.100	ug/kg C U
Endrin	4.100	ug/kg C U	4.100	ug/kg D U	4.000	ug/kg C U
Endrin aldehyde	4.100	ug/kg C U	4.100	ug/kg D U	4.000	ug/kg C U
Endrin ketone	5.500	ug/kg C R	4.100	ug/kg D U	4.000	ug/kg C U
Heptachlor	2.100	ug/kg C U	2.100	ug/kg D U	2.100	ug/kg C U
Heptachlor epoxide	2.100	ug/kg C U	2.100	ug/kg D U	2.100	ug/kg C U
Methoxychlor	21.000	ug/kg C U	21.000	ug/kg D U	21.000	ug/kg C U
Toxaphene	210.000	ug/kg C U	210.000	ug/kg D U	210.000	ug/kg C U
alpha-BHC	2.100	ug/kg C U	2.100	ug/kg D U	2.100	ug/kg C U
alpha-Chlordane	2.100	ug/kg C U	2.100	ug/kg D U	2.100	ug/kg C U
beta-BHC	2.100	ug/kg C U	2.100	ug/kg D U	2.100	ug/kg C U
delta-BHC	2.100	ug/kg C U	2.100	ug/kg D U	2.100	ug/kg C U
gamma-BHC (Lindane)	2.100	ug/kg C U	2.100	ug/kg D U	2.100	ug/kg C U
gamma-Chlordane	2.100	ug/kg C U	2.100	ug/kg D U	2.100	ug/kg C U

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0000551

TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1978	SF-SS-18	SF-SS-20
SAMPLE NUMBER	110335	110287	110290
SAMPLING DATE	0-0.5 03/22/93	0-0.5 03/18/93	0-0.5 03/19/93
CHEMICAL PARAMETERS	RESULTS UNITS L VQ	RESULTS UNITS L VQ	RESULTS UNITS L VQ
<u>Inorganics</u>			
Aluminum	11100.000 mg/kg C -	7470.000 mg/kg C -	7250.000 mg/kg D -
Antimony	1.000 mg/kg C R	1.100 mg/kg C UJ	1.200 mg/kg D U
Arsenic	6.100 mg/kg C -	5.200 mg/kg C J	6.500 mg/kg D -
Barium	84.900 mg/kg C -	61.900 mg/kg C -	60.900 mg/kg D -
Beryllium	0.860 mg/kg C -	0.920 mg/kg C -	0.600 mg/kg D -
Cadmium	1.000 mg/kg C U	2.300 mg/kg C U	1.200 mg/kg D C
Calcium	34600.000 mg/kg C -	140000.000 mg/kg C -	81600.000 mg/kg D -
Chromium	13.800 mg/kg C -	8.100 mg/kg C -	9.600 mg/kg D -
Cobalt	6.500 mg/kg C -	7.100 mg/kg C -	4.500 mg/kg D -
Copper	16.700 mg/kg C -	9.300 mg/kg C -	14.200 mg/kg D -
Cyanide	0.130 mg/kg C U	0.120 mg/kg C -	0.230 mg/kg D -
Iron	20100.000 mg/kg C -	12800.000 mg/kg C -	14000.000 mg/kg D -
Lead	19.400 mg/kg C J	20.000 mg/kg C -	18.800 mg/kg D -
Magnesium	14100.000 mg/kg C J	18200.000 mg/kg C -	20600.000 mg/kg D -
Manganese	546.000 mg/kg C -	713.000 mg/kg C -	398.000 mg/kg D -
Mercury	0.120 mg/kg C U	0.100 mg/kg C UJ	0.120 mg/kg D C
Molybdenum	5.600 mg/kg C -	9.200 mg/kg C U	4.800 mg/kg D C
Nickel	17.500 mg/kg C -	11.900 mg/kg C -	15.000 mg/kg D -
Potassium	1560.000 mg/kg C -	1040.000 mg/kg C -	1250.000 mg/kg D -
Selenium	0.450 mg/kg C UJ	0.460 mg/kg C U	0.470 mg/kg D C
Silicon	537.000 mg/kg C J	916.000 mg/kg C U	753.000 mg/kg D C
Silver	6.000 mg/kg C -	4.600 mg/kg C U	4.000 mg/kg D C
Sodium	83.300 mg/kg C -	131.000 mg/kg C -	107.000 mg/kg D -
Thallium	0.450 mg/kg C U	0.460 mg/kg C U	0.470 mg/kg D C
Vanadium	29.300 mg/kg C -	18.600 mg/kg C -	19.400 mg/kg D -
Zinc	52.700 mg/kg C -	33.300 mg/kg C -	47.300 mg/kg D -
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	6.000 ug/kg C U	11.000 ug/kg C U	12.000 ug/kg D U
1,1,2,2-Tetrachloroethane	6.000 ug/kg C U	11.000 ug/kg C U	12.000 ug/kg D U
1,1,2-Trichloroethane	6.000 ug/kg C U	11.000 ug/kg C U	12.000 ug/kg D U
1,1-Dichloroethane	6.000 ug/kg C UJ	11.000 ug/kg C U	12.000 ug/kg D U
1,1-Dichloroethene	6.000 ug/kg C U	11.000 ug/kg C U	12.000 ug/kg D U
1,2-Dichloroethane	6.000 ug/kg C U	11.000 ug/kg C U	12.000 ug/kg D U
1,2-Dichloroethene	6.000 ug/kg C U	11.000 ug/kg C U	12.000 ug/kg D U
1,2-Dichloropropane	6.000 ug/kg C U	11.000 ug/kg C U	12.000 ug/kg D U
2-Butanone	13.000 ug/kg C UJ	11.000 ug/kg C U	12.000 ug/kg D U
2-Hexanone	13.000 ug/kg C U	11.000 ug/kg C U	12.000 ug/kg D U
4-Methyl-2-pentanone	13.000 ug/kg C U	11.000 ug/kg C U	12.000 ug/kg D U
Acetone	13.000 ug/kg C U	11.000 ug/kg C UJ	9.000 ug/kg D J
Benzene	6.000 ug/kg C U	11.000 ug/kg C U	12.000 ug/kg D U

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TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1978	SF-SS-18	SF-SS-20			
SAMPLE NUMBER	110335	110287	110290			
SAMPLING DATE	0-0.5 03/22/93	0-0.5 03/18/93	0-0.5 03/19/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	6.000	ug/kg C U	11.000	ug/kg C U	12.000	ug/kg D U
Bromoform	6.000	ug/kg C U	11.000	ug/kg C U	12.000	ug/kg D U
Bromomethane	13.000	ug/kg C UJ	11.000	ug/kg C UJ	12.000	ug/kg D U
Carbon Tetrachloride	6.000	ug/kg C U	11.000	ug/kg C U	12.000	ug/kg D U
Carbon disulfide	6.000	ug/kg C U	11.000	ug/kg C U	12.000	ug/kg D U
Chlorobenzene	6.000	ug/kg C U	11.000	ug/kg C U	12.000	ug/kg D U
Chloroethane	13.000	ug/kg C UJ	11.000	ug/kg C UJ	12.000	ug/kg D U
Chloroform	6.000	ug/kg C U	11.000	ug/kg C U	12.000	ug/kg D U
Chloromethane	13.000	ug/kg C U	11.000	ug/kg C U	12.000	ug/kg D U
Dibromochloromethane	6.000	ug/kg C U	11.000	ug/kg C U	12.000	ug/kg D U
Ethylbenzene	6.000	ug/kg C U	11.000	ug/kg C U	12.000	ug/kg D U
Methylene chloride	13.000	ug/kg C UJ	10.000	ug/kg C UJ	12.000	ug/kg D U
Styrene	6.000	ug/kg C U	11.000	ug/kg C U	12.000	ug/kg D U
Tetrachloroethene	6.000	ug/kg C U	11.000	ug/kg C U	12.000	ug/kg D U
Toluene	6.000	ug/kg C U	11.000	ug/kg C U	12.000	ug/kg D U
Trichloroethene	6.000	ug/kg C U	11.000	ug/kg C U	12.000	ug/kg D U
Vinyl Acetate	13.000	ug/kg C U	11.000	ug/kg C U	12.000	ug/kg D U
Vinyl chloride	13.000	ug/kg C U	11.000	ug/kg C UJ	12.000	ug/kg D U
Xylenes, Total	6.000	ug/kg C U	11.000	ug/kg C U	12.000	ug/kg D U
cis-1,3-Dichloropropene	6.000	ug/kg C U	11.000	ug/kg C U	12.000	ug/kg D U
trans-1,3-Dichloropropene	6.000	ug/kg C U	11.000	ug/kg C U	12.000	ug/kg D U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	440.000	ug/kg C U	390.000	ug/kg C U	420.000	ug/kg D U
1,2-Dichlorobenzene	440.000	ug/kg C U	390.000	ug/kg C U	420.000	ug/kg D U
1,2-Diphenylhydrazine	440.000	ug/kg C U	390.000	ug/kg C UJ	420.000	ug/kg D U
1,3-Dichlorobenzene	440.000	ug/kg C U	390.000	ug/kg C UJ	420.000	ug/kg D U
1,4-Dichlorobenzene	440.000	ug/kg C U	390.000	ug/kg C U	420.000	ug/kg D U
2,4,5-Trichlorophenol	440.000	ug/kg C U	390.000	ug/kg C U	420.000	ug/kg D U
2,4,6-Trichlorophenol	1100.000	ug/kg C U	950.000	ug/kg C U	1000.000	ug/kg D U
2,4-Dichlorophenol	440.000	ug/kg C U	390.000	ug/kg C U	420.000	ug/kg D U
2,4-Dimethylphenol	440.000	ug/kg C U	390.000	ug/kg C U	420.000	ug/kg D U
2,4-Dinitrophenol	2100.000	ug/kg C UJ	1900.000	ug/kg C R	2000.000	ug/kg D R
2,4-Dinitrotoluene	440.000	ug/kg C U	390.000	ug/kg C UJ	420.000	ug/kg D UJ
2,6-Dinitrotoluene	440.000	ug/kg C U	390.000	ug/kg C UJ	420.000	ug/kg D UJ
2-Chloronaphthalene	440.000	ug/kg C U	390.000	ug/kg C U	420.000	ug/kg D U
2-Chlorophenol	440.000	ug/kg C U	390.000	ug/kg C U	420.000	ug/kg D U
2-Methylnaphthalene	440.000	ug/kg C U	390.000	ug/kg C U	420.000	ug/kg D U
2-Methylphenol	440.000	ug/kg C U	390.000	ug/kg C U	420.000	ug/kg D U
2-Nitroaniline	1100.000	ug/kg C U	950.000	ug/kg C U	1000.000	ug/kg D U
2-Nitrophenol	440.000	ug/kg C U	390.000	ug/kg C U	420.000	ug/kg D U

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000553

TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1978	SF-SS-18	SF-SS-20
SAMPLE NUMBER	110335	110287	110290
SAMPLING DATE	0-0.5 03/22/93	0-0.5 03/18/93	0-0.5 03/19/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
3,3'-Dichlorobenzidine	440.000	ug/kg C U	390.000
3-Nitroaniline	1100.000	ug/kg C U	950.000
4,6-Dinitro-2-methylphenol	1100.000	ug/kg C UJ	950.000
4-Bromophenyl phenyl ether	440.000	ug/kg C U	390.000
4-Chloro-3-methylphenol	440.000	ug/kg C U	390.000
4-Chlorophenylphenyl ether	440.000	ug/kg C U	390.000
4-Methylphenol	440.000	ug/kg C U	390.000
4-Nitroaniline	1100.000	ug/kg C U	950.000
4-Nitrophenol	1100.000	ug/kg C U	950.000
Acenaphthene	440.000	ug/kg C U	390.000
Acenaphthylene	440.000	ug/kg C U	120.000
Anthracene	440.000	ug/kg C U	110.000
Benz(a)anthracene	440.000	ug/kg C U	530.000
Benz(a)pyrene	440.000	ug/kg C U	750.000
Benz(b)fluoranthene	440.000	ug/kg C U	700.000
Benz(g,h,i)perylene	440.000	ug/kg C U	560.000
Benz(k)fluoranthene	440.000	ug/kg C U	670.000
Benzoic acid	2100.000	ug/kg C UJ	1900.000
Benzyl alcohol	440.000	ug/kg C U	390.000
Butyl benzyl phthalate	440.000	ug/kg C U	390.000
Carbazole	440.000	ug/kg C U	48.000
Chrysene	440.000	ug/kg C U	670.000
Di-n-butyl phthalate	440.000	ug/kg C U	330.000
Di-n-octyl phthalate	440.000	ug/kg C U	390.000
Dibenzo(a,h)anthracene	440.000	ug/kg C U	180.000
Dibenzofuran	440.000	ug/kg C U	390.000
Diethyl phthalate	440.000	ug/kg C U	390.000
Dimethyl phthalate	440.000	ug/kg C U	390.000
Fluoranthene	440.000	ug/kg C U	1100.000
Fluorene	440.000	ug/kg C U	390.000
Hexachlorobenzene	440.000	ug/kg C U	390.000
Hexachlorobutadiene	440.000	ug/kg C U	390.000
Hexachlorocyclopentadiene	440.000	ug/kg C U	390.000
Hexachloroethane	440.000	ug/kg C U	390.000
Indeno(1,2,3-cd)pyrene	440.000	ug/kg C U	520.000
Isophorone	440.000	ug/kg C U	390.000
N-Nitroso-di-n-propylamine	440.000	ug/kg C U	390.000
N-Nitrosodimethylamine	440.000	ug/kg C U	390.000
N-Nitrosodiphenylamine	440.000	ug/kg C U	390.000
Naphthalene	440.000	ug/kg C U	390.000
Nitrobenzene	440.000	ug/kg C U	390.000
Pentachlorophenol	1100.000	ug/kg C U	950.000

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PHASE II - CHEMICAL PARAMETERS

**TABLE F-3A
(Continued)**

BORING NUMBER	1978	SF-SS-18	SF-SS-20			
SAMPLE NUMBER	110335	110287	110290			
SAMPLING DATE	0-0.5 03/22/93	0-0.5 03/18/93	0-0.5 03/19/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Phenanthrene	440.000	ug/kg C U	400.000	ug/kg C -	420.000	ug/kg D U
Phenol	440.000	ug/kg C U	390.000	ug/kg C U	420.000	ug/kg D U
Pyrene	440.000	ug/kg C U	850.000	ug/kg C -	62.000	ug/kg D J
Tributyl phosphate	440.000	ug/kg C U	390.000	ug/kg C U	420.000	ug/kg D U
bis(2-Chloroethoxy)methane	440.000	ug/kg C U	390.000	ug/kg C U	420.000	ug/kg D U
bis(2-Chloroethyl)ether	440.000	ug/kg C U	390.000	ug/kg C U	420.000	ug/kg D U
bis(2-Chloroisopropyl) ether	440.000	ug/kg C U	390.000	ug/kg C U	420.000	ug/kg D U
bis(2-Ethylhexyl) phthalate	82.000	ug/kg C J	72.000	ug/kg C J	71.000	ug/kg D J
p-Chloroaniline	440.000	ug/kg C U	390.000	ug/kg C U	420.000	ug/kg D U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	4.400	ug/kg C U	3.900	ug/kg C U	4.200	ug/kg D U
4,4'-DDE	4.400	ug/kg C U	3.900	ug/kg C U	4.200	ug/kg D U
4,4'-DDT	4.400	ug/kg C U	3.900	ug/kg C U	4.200	ug/kg D U
Aldrin	2.300	ug/kg C U	2.000	ug/kg C U	2.200	ug/kg D U
Aroclor-1016	44.000	ug/kg C U	39.000	ug/kg C U	42.000	ug/kg D U
Aroclor-1221	90.000	ug/kg C U	79.000	ug/kg C U	85.000	ug/kg D U
Aroclor-1232	44.000	ug/kg C U	39.000	ug/kg C U	42.000	ug/kg D U
Aroclor-1242	44.000	ug/kg C U	39.000	ug/kg C U	42.000	ug/kg D U
Aroclor-1248	44.000	ug/kg C U	39.000	ug/kg C U	42.000	ug/kg D U
Aroclor-1254	44.000	ug/kg C U	39.000	ug/kg C U	42.000	ug/kg D U
Aroclor-1260	44.000	ug/kg C U	38.000	ug/kg C J	42.000	ug/kg D U
Dieldrin	4.400	ug/kg C U	3.900	ug/kg C U	4.200	ug/kg D U
Endosulfan II	4.400	ug/kg C U	3.900	ug/kg C U	4.200	ug/kg D U
Endosulfan sulfate	4.400	ug/kg C U	3.900	ug/kg C U	4.200	ug/kg D U
Endosulfan-I	2.300	ug/kg C U	2.000	ug/kg C U	2.200	ug/kg D U
Endrin	4.400	ug/kg C U	3.900	ug/kg C U	4.200	ug/kg D U
Endrin aldehyde	4.400	ug/kg C U	3.900	ug/kg C U	4.200	ug/kg D U
Endrin ketone	4.400	ug/kg C U	3.900	ug/kg C U	4.200	ug/kg D U
Heptachlor	2.300	ug/kg C U	2.000	ug/kg C U	2.200	ug/kg D U
Heptachlor epoxide	2.300	ug/kg C U	2.000	ug/kg C U	2.200	ug/kg D U
Methoxychlor	23.000	ug/kg C U	20.000	ug/kg C U	22.000	ug/kg D U
Toxaphene	230.000	ug/kg C U	200.000	ug/kg C U	220.000	ug/kg D U
alpha-BHC	2.300	ug/kg C U	2.000	ug/kg C U	2.200	ug/kg D U
alpha-Chlordane	2.300	ug/kg C U	2.000	ug/kg C U	2.200	ug/kg D U
beta-BHC	2.300	ug/kg C U	2.000	ug/kg C U	2.200	ug/kg D U
delta-BHC	2.300	ug/kg C U	2.000	ug/kg C U	2.200	ug/kg D U
gamma-BHC (Lindane)	2.300	ug/kg C U	2.000	ug/kg C U	2.200	ug/kg D U
gamma-Chlordane	2.300	ug/kg C U	2.000	ug/kg C U	2.200	ug/kg D U

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TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SF-SS-17	SF-SS-21	SF-SS-10
SAMPLE NUMBER	110297	110307	110317
SAMPLING DATE	0-0.5 03/18/93	0-0.5 03/18/93	0-0.5 03/19/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Inorganics</u>			
Aluminum	16300.000	mg/kg C	-
Antimony	1.200	mg/kg C	UJ
Arsenic	5.500	mg/kg C	-
Barium	151.000	mg/kg C	-
Beryllium	1.900	mg/kg C	-
Cadmium	1.200	mg/kg C	U
Calcium	88500.000	mg/kg C	-
Chromium	21.500	mg/kg C	-
Cobalt	3.700	mg/kg C	-
Copper	11.400	mg/kg C	-
Cyanide	0.150	mg/kg C	-
Iron	16500.000	mg/kg C	-
Lead	24.900	mg/kg C	-
Magnesium	18900.000	mg/kg C	-
Manganese	2650.000	mg/kg C	-
Mercury	0.120	mg/kg C	UJ
Molybdenum	4.900	mg/kg C	U
Nickel	11.900	mg/kg C	-
Potassium	1600.000	mg/kg C	-
Selenium	0.480	mg/kg C	U
Silicon	939.000	mg/kg C	J
Silver	4.400	mg/kg C	J
Sodium	328.000	mg/kg C	-
Thallium	0.480	mg/kg C	U
Vanadium	21.400	mg/kg C	-
Zinc	67.800	mg/kg C	-
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	12.000	ug/kg C	U
1,1,2,2-Tetrachloroethane	12.000	ug/kg C	U
1,1,2-Trichloroethane	12.000	ug/kg C	U
1,1-Dichloroethane	12.000	ug/kg C	U
1,1-Dichloroethene	12.000	ug/kg C	U
1,2-Dichloroethane	12.000	ug/kg C	U
1,2-Dichloroethene	12.000	ug/kg C	U
1,2-Dichloropropene	12.000	ug/kg C	U
2-Butanone	10.000	ug/kg C	U
2-Hexanone	12.000	ug/kg C	U
4-Methyl-2-pentanone	12.000	ug/kg C	UJ
Acetone	12.000	ug/kg C	UJ
Benzene	12.000	ug/kg C	U

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TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SF-SS-17	SF-SS-21	SF-SS-10			
SAMPLE NUMBER	110297	110307	110317			
SAMPLING DATE	0-0.5 03/18/93	0-0.5 03/18/93	0-0.5 03/19/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Volatile Organics						
Bromodichloromethane	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg D U
Bromoform	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg D U
Bromomethane	12.000	ug/kg C UJ	13.000	ug/kg C UJ	13.000	ug/kg D U
Carbon Tetrachloride	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg D U
Carbon disulfide	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg D U
Chlorobenzene	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg D U
Chloroethane	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg D U
Chloroform	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg D U
Chloromethane	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg D R
Dibromochloromethane	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg D U
Ethylbenzene	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg D U
Methylene chloride	10.000	ug/kg C U	10.000	ug/kg C U	13.000	ug/kg D UJ
Styrene	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg D U
Tetrachloroethene	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg D U
Toluene	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg D U
Trichloroethene	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg D U
Vinyl Acetate	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg D UJ
Vinyl chloride	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg D U
Xylenes, Total	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg D U
cis-1,3-Dichloropropene	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg D U
trans-1,3-Dichloropropene	12.000	ug/kg C U	13.000	ug/kg C U	13.000	ug/kg D U
Semivolatile Organics						
1,2,4-Trichlorobenzene	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
1,2-Dichlorobenzene	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
1,2-Diphenylhydrazine	420.000	ug/kg C UJ	450.000	ug/kg C UJ	NA	
1,3-Dichlorobenzene	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
1,4-Dichlorobenzene	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
2,4,5-Trichlorophenol	1000.000	ug/kg C U	1100.000	ug/kg C U	1000.000	ug/kg D U
2,4,6-Trichlorophenol	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
2,4-Dichlorophenol	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
2,4-Dimethylphenol	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
2,4-Dinitrophenol	2000.000	ug/kg C R	2200.000	ug/kg C R	1000.000	ug/kg D R
2,4-Dinitrotoluene	420.000	ug/kg C UJ	450.000	ug/kg C UJ	430.000	ug/kg D UJ
2,6-Dinitrotoluene	420.000	ug/kg C UJ	450.000	ug/kg C UJ	430.000	ug/kg D UJ
2-Chloronaphthalene	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
2-Chlorophenol	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
2-Methylnaphthalene	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
2-Methylphenol	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
2-Nitroaniline	1000.000	ug/kg C U	1100.000	ug/kg C U	1000.000	ug/kg D U
2-Nitrophenol	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U

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TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SF-SS-17	SF-SS-21	SF-SS-10			
SAMPLE NUMBER	110297	110307	110317			
SAMPLING DATE	0-0.5 03/18/93	0-0.5 03/18/93	0-0.5 03/19/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
3,3'-Dichlorobenzidine	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
3-Nitroaniline	1000.000	ug/kg C U	1100.000	ug/kg C U	1000.000	ug/kg D U
4,6-Dinitro-2-methylphenol	1000.000	ug/kg C R	1100.000	ug/kg C R	1000.000	ug/kg D R
4-Bromophenyl phenyl ether	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
4-Chloro-3-methylphenol	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
4-Chlorophenylphenyl ether	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
4-Methylphenol	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
4-Nitroaniline	1000.000	ug/kg C U	1100.000	ug/kg C U	1000.000	ug/kg D U
4-Nitrophenol	1000.000	ug/kg C U	1100.000	ug/kg C U	1000.000	ug/kg D R
Acenaphthene	140.000	ug/kg C J	450.000	ug/kg C U	430.000	ug/kg D U
Acenaphthylene	590.000	ug/kg C -	450.000	ug/kg C U	430.000	ug/kg D U
Anthracene	560.000	ug/kg C -	450.000	ug/kg C U	87.000	ug/kg D J
Benzo(a)anthracene	2500.000	ug/kg C -	450.000	ug/kg C U	250.000	ug/kg D J
Benzo(a)pyrene	4700.000	ug/kg C -	450.000	ug/kg C U	270.000	ug/kg D J
Benzo(b)fluoranthene	3900.000	ug/kg C -	450.000	ug/kg C U	240.000	ug/kg D J
Benzo(g,h,i)perylene	3100.000	ug/kg C -	450.000	ug/kg C U	150.000	ug/kg D J
Benzo(k)fluoranthene	3300.000	ug/kg C -	450.000	ug/kg C U	240.000	ug/kg D J
Benzoic acid	52.000	ug/kg C J	2200.000	ug/kg C J	2100.000	ug/kg D R
Benzyl alcohol	420.000	ug/kg C R	450.000	ug/kg C R	430.000	ug/kg D R
Butyl benzyl phthalate	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
Carbazole	170.000	ug/kg C J	450.000	ug/kg C U	430.000	ug/kg D U
Chrysene	3200.000	ug/kg C -	450.000	ug/kg C U	310.000	ug/kg D U
Di-n-butyl phthalate	330.000	ug/kg C U	330.000	ug/kg C U	430.000	ug/kg D U
Di-n-octyl phthalate	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
Dibenz(a,h)anthracene	1100.000	ug/kg C -	450.000	ug/kg C U	66.000	ug/kg D C
Dibenzofuran	130.000	ug/kg C J	450.000	ug/kg C U	430.000	ug/kg D C
Diethyl phthalate	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D C
Dimethyl phthalate	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D C
Fluoranthene	4300.000	ug/kg C -	450.000	ug/kg C U	640.000	ug/kg D -
Fluorene	220.000	ug/kg C J	450.000	ug/kg C U	430.000	ug/kg D U
Hexachlorobenzene	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
Hexachlorobutadiene	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
Hexachlorocyclopentadiene	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
Hexachloroethane	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
Indeno(1,2,3-cd)pyrene	3000.000	ug/kg C -	450.000	ug/kg C U	150.000	ug/kg D J
Isophorone	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
N-Nitroso-di-n-propylamine	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
N-Nitrosodimethylamine	420.000	ug/kg C U	450.000	ug/kg C U	NA	
N-Nitrosodiphenylamine	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
Naphthalene	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
Nitrobenzene	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
Pentachlorophenol	1000.000	ug/kg C U	1100.000	ug/kg C U	1000.000	ug/kg D U

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TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SF-SS-17	SF-SS-21	SF-SS-10			
SAMPLE NUMBER	110297	110307	110317			
SAMPLING DATE	0-0.5 03/18/93	0-0.5 03/18/93	0-0.5 03/19/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Phenanthrene	2300.000	ug/kg C -	450.000	ug/kg C U	410.000	ug/kg D J
Phenol	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
Pyrene	3500.000	ug/kg C -	450.000	ug/kg C U	480.000	ug/kg D -
Tributyl phosphate	420.000	ug/kg C U	450.000	ug/kg C U	NA	
bis(2-Chloroethoxy)methane	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
bis(2-Chloroethyl)ether	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
bis(2-Chloroisopropyl) ether	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D J
bis(2-Ethylhexyl) phthalate	100.000	ug/kg C J	450.000	ug/kg C U	91.000	ug/kg D J
p-Chloroaniline	420.000	ug/kg C U	450.000	ug/kg C U	430.000	ug/kg D U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	4.200	ug/kg C U	4.500	ug/kg C U	4.300	ug/kg D U
4,4'-DDE	4.200	ug/kg C U	4.500	ug/kg C U	4.300	ug/kg D U
4,4'-DDT	4.200	ug/kg C U	4.500	ug/kg C U	4.300	ug/kg D U
Aldrin	2.100	ug/kg C U	2.300	ug/kg C U	2.200	ug/kg D U
Aroclor-1016	42.000	ug/kg C U	45.000	ug/kg C U	43.000	ug/kg D U
Aroclor-1221	84.000	ug/kg C U	91.000	ug/kg C U	87.000	ug/kg D U
Aroclor-1232	42.000	ug/kg C U	45.000	ug/kg C U	43.000	ug/kg D U
Aroclor-1242	42.000	ug/kg C U	45.000	ug/kg C U	43.000	ug/kg D U
Aroclor-1248	42.000	ug/kg C U	45.000	ug/kg C U	43.000	ug/kg D U
Aroclor-1254	42.000	ug/kg C U	45.000	ug/kg C U	43.000	ug/kg D U
Aroclor-1260	42.000	ug/kg C U	45.000	ug/kg C U	43.000	ug/kg D U
Dieldrin	4.200	ug/kg C U	4.500	ug/kg C U	4.300	ug/kg D U
Endosulfan II	4.200	ug/kg C U	4.500	ug/kg C U	4.300	ug/kg D U
Endosulfan sulfate	4.200	ug/kg C U	4.500	ug/kg C U	4.300	ug/kg D U
Endosulfan-I	2.100	ug/kg C U	2.300	ug/kg C U	2.200	ug/kg D U
Endrin	4.200	ug/kg C U	4.500	ug/kg C U	4.300	ug/kg D U
Endrin aldehyde	4.200	ug/kg C U	4.500	ug/kg C U	4.300	ug/kg D U
Endrin ketone	4.200	ug/kg C U	4.500	ug/kg C U	4.300	ug/kg D U
Heptachlor	2.100	ug/kg C U	2.300	ug/kg C U	2.200	ug/kg D U
Heptachlor epoxide	2.100	ug/kg C U	2.300	ug/kg C U	2.200	ug/kg D U
Methoxychlor	21.000	ug/kg C U	23.000	ug/kg C U	22.000	ug/kg D U
Toxaphene	210.000	ug/kg C U	230.000	ug/kg C U	220.000	ug/kg D U
alpha-BHC	2.100	ug/kg C U	2.300	ug/kg C U	2.200	ug/kg D U
alpha-Chlordane	2.100	ug/kg C U	2.300	ug/kg C U	2.200	ug/kg D U
beta-BHC	2.100	ug/kg C U	2.300	ug/kg C U	2.200	ug/kg D U
delta-BHC	2.100	ug/kg C U	2.300	ug/kg C U	2.200	ug/kg D U
gamma-BHC (Lindane)	2.100	ug/kg C U	2.300	ug/kg C U	2.200	ug/kg D U
gamma-Chlordane	2.100	ug/kg C U	2.300	ug/kg C U	2.200	ug/kg D U

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TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SF-SS-11	SF-SS-16	SF-SS-19			
SAMPLE NUMBER	110321	110343	110365			
SAMPLING DATE	0-0.5 03/19/93	0-0.5 03/22/93	0-0.5 03/22/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Inorganics</u>						
Aluminum	11700.000	mg/kg C - U	10700.000	mg/kg C - R	7110.000	mg/kg C -
Antimony	0.890	mg/kg C U	5.600	mg/kg C R	0.850	mg/kg C R
Arsenic	4.900	mg/kg C -	5.900	mg/kg C -	4.600	mg/kg C -
Barium	75.500	mg/kg C -	72.600	mg/kg C -	55.100	mg/kg C -
Beryllium	0.590	mg/kg C - U	0.840	mg/kg C -	0.490	mg/kg C -
Cadmium	0.890	mg/kg C - U	1.100	mg/kg C -	0.850	mg/kg C -
Calcium	67000.000	mg/kg C -	42100.000	mg/kg C -	87600.000	mg/kg C -
Chromium	12.100	mg/kg C -	13.100	mg/kg C -	8.800	mg/kg C -
Cobalt	6.600	mg/kg C -	6.600	mg/kg C -	4.500	mg/kg C -
Copper	16.200	mg/kg C - U	15.800	mg/kg C -	12.100	mg/kg C -
Cyanide	0.120	mg/kg C - U	0.120	mg/kg C -	0.120	mg/kg C -
Iron	20200.000	mg/kg C -	18600.000	mg/kg C -	13300.000	mg/kg C -
Lead	15.100	mg/kg C -	14.700	mg/kg C -	46.000	mg/kg C -
Magnesium	16700.000	mg/kg C -	13600.000	mg/kg C -	28200.000	mg/kg C -
Manganese	662.000	mg/kg C - U	488.000	mg/kg C -	368.000	mg/kg C -
Mercury	0.110	mg/kg C - U	0.120	mg/kg C -	0.120	mg/kg C -
Molybdenum	5.800	mg/kg C - U	5.100	mg/kg C -	4.000	mg/kg C -
Nickel	15.100	mg/kg C -	16.300	mg/kg C -	12.800	mg/kg C -
Potassium	1330.000	mg/kg C -	1690.000	mg/kg C -	1220.000	mg/kg C -
Selenium	0.380	mg/kg C - U	0.470	mg/kg C -	0.360	mg/kg C -
Silicon	466.000	mg/kg C - U	555.000	mg/kg C -	421.000	mg/kg C -
Silver	5.600	mg/kg C - U	5.700	mg/kg C -	3.200	mg/kg C -
Sodium	150.000	mg/kg C -	88.700	mg/kg C -	122.000	mg/kg C -
Thallium	0.380	mg/kg C - U	0.470	mg/kg C -	0.360	mg/kg C -
Vanadium	24.700	mg/kg C -	27.600	mg/kg C -	18.900	mg/kg C -
Zinc	47.800	mg/kg C -	55.400	mg/kg C -	36.800	mg/kg C -
<u>Volatile Organics</u>						
1,1,1-Trichloroethane	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U
1,1,2,2-Tetrachloroethane	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U
1,1,2-Trichloroethane	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U
1,1-Dichloroethane	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U
1,1-Dichloroethene	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U
1,2-Dichloroethane	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U
1,2-Dichloroethene	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U
1,2-Dichloropropane	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U
2-Butanone	12.000	ug/kg C U	13.000	ug/kg C U	14.000	ug/kg C U
2-Hexanone	12.000	ug/kg C U	13.000	ug/kg C U	14.000	ug/kg C U
4-Methyl-2-pentanone	12.000	ug/kg C U	13.000	ug/kg C U	14.000	ug/kg C U
Acetone	12.000	ug/kg C U	13.000	ug/kg C U	30.000	ug/kg C U
Benzene	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U

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TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SF-SS-11	SF-SS-16	SF-SS-19			
SAMPLE NUMBER	110321	110343	110365			
SAMPLING DATE	0-0.5 03/19/93	0-0.5 03/22/93	0-0.5 03/22/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Volatile Organics						
Bromodichloromethane	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U
Bromoform	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U
Bromomethane	12.000	ug/kg C U	13.000	ug/kg C UJ	14.000	ug/kg C UJ
Carbon Tetrachloride	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U
Carbon disulfide	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U
Chlorobenzene	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U
Chloroethane	12.000	ug/kg C U	13.000	ug/kg C UJ	14.000	ug/kg C UJ
Chloroform	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U
Chloromethane	12.000	ug/kg C R	13.000	ug/kg C U	14.000	ug/kg C U
Dibromochloromethane	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U
Ethylbenzene	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U
Methylene chloride	12.000	ug/kg C UJ	6.000	ug/kg C UJ	14.000	ug/kg C UJ
Styrene	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U
Tetrachloroethene	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U
Toluene	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U
Trichloroethene	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U
Vinyl Acetate	12.000	ug/kg C UJ	13.000	ug/kg C U	14.000	ug/kg C U
Vinyl chloride	12.000	ug/kg C U	13.000	ug/kg C U	14.000	ug/kg C U
Xylenes, Total	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U
cis-1,3-Dichloropropene	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U
trans-1,3-Dichloropropene	12.000	ug/kg C U	6.000	ug/kg C U	7.000	ug/kg C U
Semivolatile Organics						
1,2,4-Trichlorobenzene	410.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
1,2-Dichlorobenzene	410.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
1,2-Diphenylhydrazine	NA		420.000	ug/kg C U	410.000	ug/kg C U
1,3-Dichlorobenzene	410.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
1,4-Dichlorobenzene	410.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
2,4,5-Trichlorophenoil	1000.000	ug/kg C U	1000.000	ug/kg C U	1000.000	ug/kg C U
2,4,6-Trichlorophenol	410.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
2,4-Dichlorophenol	410.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
2,4-Dimethylphenol	410.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
2,4-Dinitrophenol	1000.000	ug/kg C R	2000.000	ug/kg C UJ	2000.000	ug/kg C UJ
2,4-Dinitrotoluene	410.000	ug/kg C UJ	420.000	ug/kg C U	410.000	ug/kg C U
2,6-Dinitrotoluene	410.000	ug/kg C UJ	420.000	ug/kg C U	410.000	ug/kg C U
2-Chloronaphthalene	410.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
2-Chlorophenol	410.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
2-Methylnaphthalene	410.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
2-Methylphenol	410.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
2-Nitroaniline	1000.000	ug/kg C U	1000.000	ug/kg C U	1000.000	ug/kg C U
2-Nitrophenol	410.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U

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000561

TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SF-SS-11	SF-SS-16	SF-SS-19
SAMPLE NUMBER	110321	110343	110365
SAMPLING DATE	0-0.5 03/19/93	0-0.5 03/22/93	0-0.5 03/22/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
3,3'-Dichlorobenzidine	410.000	ug/kg C U	420.000
3-Nitroaniline	1000.000	ug/kg C U	1000.000
4,6-Dinitro-2-methylphenol	1000.000	ug/kg C R	1000.000
4-Bromophenyl phenyl ether	410.000	ug/kg C U	420.000
4-Chloro-3-methylphenol	410.000	ug/kg C U	420.000
4-Chlorophenylphenyl ether	410.000	ug/kg C U	420.000
4-Methylphenol	410.000	ug/kg C U	420.000
4-Nitroaniline	1000.000	ug/kg C U	1000.000
4-Nitrophenol	1000.000	ug/kg C R	1000.000
Acenaphthene	410.000	ug/kg C U	420.000
Acenaphthylene	410.000	ug/kg C U	420.000
Anthracene	410.000	ug/kg C U	59.000
Benzo(a)anthracene	410.000	ug/kg C U	160.000
Benzo(a)pyrene	51.000	ug/kg C J	170.000
Benzo(b)fluoranthene	46.000	ug/kg C J	160.000
Benzo(g,h,i)perylene	53.000	ug/kg C J	100.000
Benzo(k)fluoranthene	49.000	ug/kg C J	180.000
Benzoic acid	2000.000	ug/kg C R	78.000
Benzyl alcohol	410.000	ug/kg C R	420.000
Butyl benzyl phthalate	410.000	ug/kg C U	420.000
Carbazole	410.000	ug/kg C U	420.000
Chrysene	60.000	ug/kg C J	200.000
Di-n-butyl phthalate	410.000	ug/kg C U	420.000
Di-n-octyl phthalate	410.000	ug/kg C UJ	420.000
Dibenz(a,h)anthracene	410.000	ug/kg C U	43.000
Dibenzofuran	410.000	ug/kg C U	420.000
Diethyl phthalate	410.000	ug/kg C U	420.000
Dimethyl phthalate	62.000	ug/kg C J	420.000
Fluoranthene	73.000	ug/kg C J	340.000
Fluorene	410.000	ug/kg C U	420.000
Hexachlorobenzene	410.000	ug/kg C U	420.000
Hexachlorobutadiene	410.000	ug/kg C U	420.000
Hexachlorocyclopentadiene	410.000	ug/kg C UJ	420.000
Hexachloroethane	410.000	ug/kg C U	420.000
Indeno(1,2,3-cd)pyrene	410.000	ug/kg C U	110.000
Isophorone	410.000	ug/kg C U	420.000
N-Nitroso-di-n-propylamine	410.000	ug/kg C U	420.000
N-Nitrosodimethylamine	NA		420.000
N-Nitrosodiphenylamine	410.000	ug/kg C U	420.000
Naphthalene	410.000	ug/kg C U	420.000
Nitrobenzene	410.000	ug/kg C U	420.000
Pentachlorophenol	1000.000	ug/kg C UJ	1000.000

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000562

TABLE F-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SF-SS-11			SF-SS-16			SF-SS-19					
SAMPLE NUMBER	110321	0-0.5	03/19/93	110343	0-0.5	03/22/93	110365	0-0.5	03/22/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
Phenanthrene	410.000	ug/kg	C	U	200.000	ug/kg	C	J	410.000	ug/kg	C	U
Phenol	410.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Pyrene	64.000	ug/kg	C	J	270.000	ug/kg	C	J	80.000	ug/kg	C	J
Tributyl phosphate	NA				420.000	ug/kg	C	U	410.000	ug/kg	C	U
bis(2-Chloroethoxy)methane	410.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
bis(2-Chloroethyl)ether	410.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
bis(2-Chloroisopropyl) ether	410.000	ug/kg	C	UJ	420.000	ug/kg	C	U	410.000	ug/kg	C	U
bis(2-Ethylhexyl) phthalate	65.000	ug/kg	C	J	95.000	ug/kg	C	J	83.000	ug/kg	C	J
p-Chloroaniline	410.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	4.100	ug/kg	C	U	4.300	ug/kg	C	U	4.100	ug/kg	C	U
4,4'-DDE	4.100	ug/kg	C	U	4.300	ug/kg	C	U	4.100	ug/kg	C	U
4,4'-DDT	4.100	ug/kg	C	U	4.300	ug/kg	C	U	4.100	ug/kg	C	U
Aldrin	2.100	ug/kg	C	U	2.200	ug/kg	C	U	2.100	ug/kg	C	U
Aroclor-1016	41.000	ug/kg	C	U	43.000	ug/kg	C	U	41.000	ug/kg	C	U
Aroclor-1221	83.000	ug/kg	C	U	86.000	ug/kg	C	U	83.000	ug/kg	C	U
Aroclor-1232	41.000	ug/kg	C	U	43.000	ug/kg	C	U	41.000	ug/kg	C	U
Aroclor-1242	41.000	ug/kg	C	U	43.000	ug/kg	C	U	41.000	ug/kg	C	U
Aroclor-1248	41.000	ug/kg	C	U	43.000	ug/kg	C	U	41.000	ug/kg	C	U
Aroclor-1254	41.000	ug/kg	C	U	43.000	ug/kg	C	U	41.000	ug/kg	C	U
Aroclor-1260	41.000	ug/kg	C	U	43.000	ug/kg	C	U	52.000	ug/kg	C	-
Dieldrin	4.100	ug/kg	C	U	4.300	ug/kg	C	U	4.100	ug/kg	C	U
Endosulfan II	4.100	ug/kg	C	U	4.300	ug/kg	C	U	4.100	ug/kg	C	U
Endosulfan sulfate	4.100	ug/kg	C	U	4.300	ug/kg	C	U	4.100	ug/kg	C	U
Endosulfan-I	2.100	ug/kg	C	U	2.200	ug/kg	C	U	2.100	ug/kg	C	U
Endrin	4.100	ug/kg	C	U	4.300	ug/kg	C	U	4.100	ug/kg	C	U
Endrin aldehyde	4.100	ug/kg	C	U	4.300	ug/kg	C	U	4.100	ug/kg	C	U
Endrin ketone	4.100	ug/kg	C	U	4.300	ug/kg	C	U	4.100	ug/kg	C	U
Heptachlor	2.100	ug/kg	C	U	2.200	ug/kg	C	U	2.100	ug/kg	C	U
Heptachlor epoxide	2.100	ug/kg	C	U	2.200	ug/kg	C	U	2.100	ug/kg	C	U
Methoxychlor	21.000	ug/kg	C	U	22.000	ug/kg	C	U	21.000	ug/kg	C	U
Toxaphene	210.000	ug/kg	C	U	220.000	ug/kg	C	U	210.000	ug/kg	C	U
alpha-BHC	2.100	ug/kg	C	U	2.200	ug/kg	C	U	2.100	ug/kg	C	U
alpha-Chlordane	2.100	ug/kg	C	U	2.200	ug/kg	C	U	2.100	ug/kg	C	U
beta-BHC	2.100	ug/kg	C	U	2.200	ug/kg	C	U	2.100	ug/kg	C	U
delta-BHC	2.100	ug/kg	C	U	2.200	ug/kg	C	U	2.100	ug/kg	C	U
gamma-BHC (Lindane)	2.100	ug/kg	C	U	2.200	ug/kg	C	U	2.100	ug/kg	C	U
gamma-Chlordane	2.100	ug/kg	C	U	2.200	ug/kg	C	U	2.100	ug/kg	C	U

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000563

TABLE F-3B
SOUTH FIELD
TENTATIVELY IDENTIFIED COMPOUNDS
SURFACE SOIL

Sample Number	Sample Location	Parameter	Result	Units
110287	SF-SS-18	1-hexanol, 2-ethyl-	220	ug/kg
110287	SF-SS-18	propanoic acid, 2-methyl-,	120	ug/kg
110287	SF-SS-18	tetradecanoic acid	210	ug/kg
110287	SF-SS-18	tritetraccontane	100	ug/kg
110287	SF-SS-18	11h-benzo-a-fluorene	160	ug/kg
110287	SF-SS-18	tritetraccontane	170	ug/kg
110287	SF-SS-18	hexanedioic acid, mono(2-eth	270	ug/kg
110287	SF-SS-18	tritetraccontane	310	ug/kg
110287	SF-SS-18	tetratetraccontane	300	ug/kg
110287	SF-SS-18	tritetraccontane	270	ug/kg
110287	SF-SS-18	tritetraccontane	200	ug/kg
110287	SF-SS-18	benzo-j-fluoranthene	180	ug/kg
110287	SF-SS-18	benzo-j-fluoranthene	650	ug/kg
110290	SF-SS-20	1-hexanol, 2-ethyl-	290	ug/kg
110290	SF-SS-20	tetradecanoic acid	370	ug/kg
110290	SF-SS-20	hexanedioic acid, mono(2-eth	7900	ug/kg
110290	SF-SS-20	tritetraccontane	230	ug/kg
110290	SF-SS-20	tritetraccontane	230	ug/kg
110290	SF-SS-20	tritetraccontane	250	ug/kg
110290	SF-SS-20	(z)14-tricosenyl formate	280	ug/kg
110290	SF-SS-20	tritetraccontane	470	ug/kg
110290	SF-SS-20	tritetraccontane	850	ug/kg
110297	SF-SS-17	11h-benzo-a-fluorene	1000	ug/kg
110297	SF-SS-17	11h-benzo-a-fluorene	490	ug/kg
110297	SF-SS-17	hexanedioic acid, dioctyl es	17000	ug/kg
110297	SF-SS-17	cyclopenta cd pyrene	670	ug/kg
110297	SF-SS-17	3,4-dihydrocyclopenta(cd)pyr	450	ug/kg
110297	SF-SS-17	benzo-j-fluoranthene	990	ug/kg
110297	SF-SS-17	benzo-j-fluoranthene	2300	ug/kg
110297	SF-SS-17	benzo-j-fluoranthene	1400	ug/kg
110307	SF-SS-21	propanoic acid, 2-methyl-,	140	ug/kg
110307	SF-SS-21	tetradecanoic acid	190	ug/kg
110307	SF-SS-21	hexanedioic acid, mono(2-eth	400	ug/kg
110307	SF-SS-21	tritetraccontane	140	ug/kg
110307	SF-SS-21	eicosane, 2-methyl-	120	ug/kg
110358	SF-SB-04	silane, fluorotrimethyl-	10	ug/kg
110372	SF-SB-07	methane, thiobis-	8.4	ug/kg
110324	SF-SB-08	cyclopentane, nitro-	270	ug/kg
110324	SF-SB-08	propanoic acid, 2-methyl-,	120	ug/kg
110324	SF-SB-08	hexanedioic acid, dioctyl es	10000	ug/kg
110331	SF-SB-01	2-heptanone, 6-methyl-5-meth	280	ug/kg
110331	SF-SB-01	2,4-(1h,3h)-pyrimidinedione	490	ug/kg
110331	SF-SB-01	pyrazolo 5,1-c-as-triazin-4	280	ug/kg
110331	SF-SB-01	propanoic acid, 2-methyl-,	200	ug/kg
110331	SF-SB-01	hexanedioic acid, dioctyl es	100	ug/kg
110331	SF-SB-01	iron, tricarbonyl n-(phenyl-	8000	ug/kg
110331	SF-SB-01	(z)14-tricosenyl formate	93	ug/kg
110331	SF-SB-01	ergost-5-en-3-ol, (3.beta.)-	170	ug/kg
110331	SF-SB-01	stigmast-5-en-3-ol, (3.beta.)-	200	ug/kg
110335	SF-SB-15	glycene, N,N-dimethyl-, ethy	24000	ug/kg
110335	SF-SB-15	hydroperoxide, 1,1-dimethyle	22000	ug/kg
110335	SF-SB-15	propane, 1-isocyano-	220	ug/kg
110335	SF-SB-15	ethane, 1,1,2,2-tetrachloro-	170	ug/kg

TABLE F-3B
SOUTH FIELD
TENTATIVELY IDENTIFIED COMPOUNDS
SURFACE SOIL

Sample Number	Sample Location	Parameter	Result	Units
110335	SF-SB-15	2-pentanone, 4-hydroxy-4-met	110	ug/kg
110335	SF-SB-15	propanoic acid, 2-methyl-,	170	ug/kg
110335	SF-SB-15	tritetracontane	92	ug/kg
110335	SF-SB-15	hexanedionic acid, mono(2-eth	470	ug/kg
110335	SF-SB-15	iron, tricarbonyl n-(phenyl-	120	ug/kg
110335	SF-SB-15	tetratetracontane	93	ug/kg
110335	SF-SB-15	tritetracontane	96	ug/kg
110335	SF-SB-15	tritetracontane	140	ug/kg
110335	SF-SB-15	tritetracontane	160	ug/kg
110335	SF-SB-15	stigmast-5-en-3-ol, (3.beta.)-	160	ug/kg
110338	SF-SB-06	1,2-ethanediol, diacetate	21000	ug/kg
110338	SF-SB-06	2h-pyran-2-one, 5,6-dihydro-	290	ug/kg
110338	SF-SB-06	hexanedionic acid, mono(2-eth	180	ug/kg
110338	SF-SB-06	tridecanoic acid	270	ug/kg
110338	SF-SB-06	hexanedionic acid, mono(2-eth	150	ug/kg
110338	SF-SB-06	hexanedionic acid, mono(2-eth	190	ug/kg
110338	SF-SB-06	hexanedionic acid, dioctyl es	27000	ug/kg
110340	SF-SB-13	2-heptanone, 6-methyl-5-meth	470	ug/kg
110340	SF-SB-13	2,4(1h,3h)-pyrimidinedione	720	ug/kg
110340	SF-SB-13	hexanedionic acid, mono(2-eth	120	ug/kg
110340	SF-SB-13	hexanedionic acid, mono(2-eth	25000	ug/kg
110340	SF-SB-13	benzo-j-fluoranthene	170	ug/kg
110351	SF-SB-02	cyclopentanone, 2,5-dimethyl	230	ug/kg
110351	SF-SB-02	2-heptanone, 6-methyl-5-meth	370	ug/kg
110351	SF-SB-02	2,4(1h,3h)-pyrimidinedione	450	ug/kg
110351	SF-SB-02	2h-1-benzopyran-2-one	1500	ug/kg
110351	SF-SB-02	propanoic acid, 2-methyl-, 1	200	ug/kg
110351	SF-SB-02	tetradecanoic acid	460	ug/kg
110351	SF-SB-02	hexanedionic acid, mono(2-eth	2700	ug/kg
110351	SF-SB-02	(z)14-tricosenyl formate	200	ug/kg
110351	SF-SB-02	ergost-5-en-3-ol, (3.beta.)-	260	ug/kg
110351	SF-SB-02	stigmast-5-en-3-ol, (3.beta.)-	1300	ug/kg
110355	SF-SB-03	2-heptanone, 6-methyl-5-meth	450	ug/kg
110355	SF-SB-03	2,4,6-trimethyl-1-nonene	510	ug/kg
110355	SF-SB-03	tetradecanoic acid	230	ug/kg
110355	SF-SB-03	hexanedionic acid, mono(2-eth	100	ug/kg
110355	SF-SB-03	hexanedionic acid, mono(2-eth	20000	ug/kg
110355	SF-SB-03	(z)14-tricosenyl formate	110	ug/kg
110355	SF-SB-03	octadecane, 9-ethyl-9-heptyl	140	ug/kg
110358	SF-SB-04	7-oxabicyclo 4.1.0 heptane	240	ug/kg
110358	SF-SB-04	propanoic acid, 2-methyl-, 1	130	ug/kg
110358	SF-SB-04	tetradecanoic acid	120	ug/kg
110358	SF-SB-04	hexanedioic acid, dioctyl es	12000	ug/kg
110365	SF-SS-19	hexanedionic acid, mono(2-eth	290	ug/kg
110365	SF-SS-19	tetradecanoic acid	340	ug/kg
110365	SF-SS-19	3-hexene, 2,2,3,4,5,5-hexam	100	ug/kg
110365	SF-SS-19	hexanedioic acid, dioctyl es	140	ug/kg
110365	SF-SS-19	hexanedioic acid, mono(2-eth	21000	ug/kg
110365	SF-SS-19	naphthalene, 1,1'-(1,3-propa	210	ug/kg
110365	SF-SS-19	dotriaccontane	210	ug/kg
110365	SF-SS-19	2(1h)-pyridinone, 3-phenylm	140	ug/kg
110365	SF-SS-19	dotriaccontane	200	ug/kg
110365	SF-SS-19	dotriaccontane	110	ug/kg

TABLE F-3B
SOUTH FIELD
TENTATIVELY IDENTIFIED COMPOUNDS
SURFACE SOIL

Sample Number	Sample Location	Parameter	Result	Units
110365	SF-SS-19	cyclohexane, 1-(1,5-dimethyl	87	ug/kg
110365	SF-SS-19	lup-20(29)-en-3-ol, (3.beta.	120	ug/kg
110365	SF-SS-19	dotriacontane	400	ug/kg
110365	SF-SS-19	octadecane, 9-ethyl-9-heptyl	94	ug/kg
110365	SF-SS-19	arsenosic acid, tris(trimethyl	120	ug/kg
110372	SF-SB-07	7-oxabicyclo 4.1.0 heptane	270	ug/kg
110372	SF-SB-07	2,4,6-trimethyl-1-nonene	2800	ug/kg
110372	SF-SB-07	hexanoic acid	160	ug/kg
110372	SF-SB-07	propanoic acid, 2-methyl-, 1	230	ug/kg
110372	SF-SB-07	tetradecanoic acid	510	ug/kg
110372	SF-SB-07	hexanedionic acid, mono(2-eth	1500	ug/kg
110372	SF-SB-07	1-dotriacontanol	160	ug/kg
110372	SF-SB-07	1,3-dioxolane, 4-ethyl-5-oct	140	ug/kg
110372	SF-SB-07	1,3-dioxolane, 4-ethyl-5-oct	600	ug/kg
110372	SF-SB-07	stigmast-5-en-3-ol, (3.beta.)-	900	ug/kg
110372	SF-SB-07	arsenosic acid, tris(trimethyl	220	ug/kg
110372	SF-SB-07	pregnan-3-one, (5.alpha.)-	140	ug/kg
110385	SF-SB-12	cyclobutanone, 2-methyl-2-ox	200	ug/kg
110385	SF-SB-12	2,4,6-trimethyl-1-nonene	240	ug/kg
110385	SF-SB-12	2h-1-benzopyran-2-one	420	ug/kg
110385	SF-SB-12	tetradecanoic acid	130	ug/kg
110385	SF-SB-12	1-dotriacontanol	110	ug/kg
110385	SF-SB-12	eicosane, 2-methyl	270	ug/kg

6509

TABLE F-4

TABLE F-4
SOUTH FIELD
CIS SURFACE SOIL RADIOLOGICAL RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

FEMP ID #	SL24206				SS24212				SL24049				SL24197			
	Depth	2-6"			Activity (pCi/g)	2-6"			Activity (pCi/g)	6-12"			Activity (pCi/g)	2-6"		
		Date	02/27/87	Validation Uncertainty		04/29/87	Validation Uncertainty	Qualifier		04/17/87	Validation Uncertainty	Qualifier		04/23/87	Validation Uncertainty	Qualifier
Isotope	Activity (pCi/g)	Uncertainty	Validation Qualifier	Activity (pCi/g)	Uncertainty	Validation Qualifier	Activity (pCi/g)	Uncertainty	Validation Qualifier	Activity (pCi/g)	Uncertainty	Validation Qualifier	Activity (pCi/g)	Uncertainty	Validation Qualifier	Activity (pCi/g)
Uranium-234	8.98	±0.48	J	115	±1.72		78.9	±1.45		98.4	±2.39					
Uranium-235	0.31	±0.09	J	5.53	±0.38		3.62	±0.31		3.80	±0.47					
Uranium-238	9.54	±0.50	U	129	±1.82		82.7	±1.48	J	102	±2.44					
Thorium-228	1.71	±0.53		1.47	±0.42	J	0.28	±0.11	J	1.75	±1.20	R				
Thorium-230	17.5	±1.41		31.8	±1.79	J	399	±3.77	J	14.8	±7.62	R				
Thorium-232	1.54	±0.46	U	1.32	±0.37	U	0.49	±0.13	J	2.33	±1.10	R				
Plutonium-238	0.13	NA ^a	U	0.14	NA	U	0.13	NA	U	0.13	NA	U				
Plutonium-239/240	0.03	NA	U	0.06	NA	U	0.07	±0.05	J	0.08	±0.04	J				
Ruthenium-106	2.70	NA	U	2.01	NA	U	1.67	NA	U	1.69	NA	U				
Cesium-137	0.48	±0.77	J	0.26	NA	U	2.81	±0.90	J	2.24	±0.48	J				
Technetium-99	1.40	NA	U	1.5	NA	U	1.10	NA	U	1.1	NA	U				
Strontium-90	0.24	NA	U	0.32	NA	U	0.15	NA	U	0.63	±0.26					
Neptunium-237	0.41	NA	U	0.09	NA	U	0.13	NA	U	0.04	NA	U				

See footnote at end of table

TABLE F-4
(Continued)

FEMP ID #	SL24121				SL24255				SS24046				SS24081			
Depth	2-6"				6-12"				0-2"				0-2"			
Date	04/27/87				04/22/87				04/17/87				04/20/87			
Isotope	Activity (pCi/g)	Uncertainty	Validation	Qualifier												
Uranium-234	13.6	± 0.57	J		8.32	± 0.47	J		15.1	± 0.56	J		2851	± 38.8		
Uranium-235	0.62	± 0.12	J		0.35	± 0.09	J		0.63	± 0.11	J		356	± 13.7		
Uranium-238	14.8	± 0.59	J		8.54	± 0.47	U		16.2	± 0.58	J		2940	± 39.4		
Thorium-228	0.74	± 0.32	J		0.62	± 0.30	J		0.51	± 0.11	J		0.85	± 0.22	J	
Thorium-230	83.5	± 3.09	U		18.2	± 1.38	U		310	± 2.66	J		77.1	± 1.96	U	
Thorium-232	0.69	± 0.28	J		0.39	± 0.21	J		1.00	± 0.15	J		0.45	± 0.15	J	
Plutonium-238	0.23	NA	U		0.09	NA	U		0.09	NA	U		0.07	NA	U	
Plutonium-239/240	0.16	NA	U		0.04	NA	U		0.03	NA	U		0.02	NA	U	
Ruthenium-106	31.9	± 7.78	J		2.12	NA	U		1.90	NA	U		23.8	± 23.5	J	
Cesium-137	0.29	NA	U		0.25	NA	U		0.61	± 0.35	J		4.38	± 2.52	J	
Technetium-99	1.2	NA	U		1.20	NA	U		1.2	NA	U		1.3	NA	U	
Strontium-90	0.27	NA	U		0.23	NA	U		0.26	NA	U		0.12	NA	U	
Neptunium-237	0.05	NA	U		0.04	NA	U		0.04	NA	U		0.04	NA	U	

See footnote at end of table

TABLE F-4
(Continued)

FEMP ID #	SS24196				SS24183				SL24116				SL24262					
	Depth	0-2"			0-2"			2-6"			6-12"			04/22/87	04/22/87	04/22/87		
		Date	04/23/87	04/24/87	04/27/87	04/27/87	04/27/87	04/27/87	04/27/87	04/27/87	04/27/87	04/27/87	04/27/87					
Isotope	Activity (pCi/g)	Uncertainty	Validation Qualifier															
Uranium-234	105	± 1.64		12.3	± 0.59	U	14.3	± 0.47	U	48.6	± 0.99	J						
Uranium-235	4.38	± 0.34		0.68	± 0.14	U	0.67	± 0.11	U	2.39	± 0.22	J						
Uranium-238	108	± 1.66		11.2	± 0.57	U	14.2	± 0.47	U	56.7	± 1.07	J						
Thorium-228	0.62	± 0.21	J	34.3	± 2.19		0.19	± 0.13	J	0.27	± 0.07	J						
Thorium-230	21.2	± 1.08	U	10.7	± 1.25		12.1	± 0.78		12.1	± 0.44	J						
Thorium-232	0.53	± 0.19	J	36.5	± 2.26		0.18	± 0.09		0.18	± 0.05	J						
Plutonium-238	0.07	NA	U	0.06	± 0.07	J	0.18	NA	U	0.26	NA	U						
Plutonium-239/240	0.08	NA	U	0.06	NA	U	0.04	NA	U	0.10	NA	U						
Ruthenium-106	1.92	NA	U	5.74	± 3.41		14.4	± 6.57		1.88	NA	U						
Cesium-137	1.02	± 0.49	J	0.69	± 0.39		2.04	± 0.89		0.37	± 0.70	J						
Technetium-99	1.2	NA	U	1.50	NA	U	1.20	NA	U	1.20	NA	U						
Strontium-90	0.22	NA	U	0.27	NA	U	0.31	NA	U	0.25	NA	U						
Neptunium-237	0.04	NA	U	0.04	NA	U	0.02	NA	U	0.04	NA	U						

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See footnote at end of table

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FEMP-OU02-6 FINAL
January 21, 1995

TABLE F-4
(Continued)

FEMP ID #	SS24189			SL24192			SL24199			SS24151			
	Depth	0-2"			2-6"			2-6"			0-2"		
		Date	04/24/87		04/23/87		04/23/87		04/21/87				
Isotope	Activity (pCi/g)	Validation Uncertainty	Qualifier										
Uranium-234	4.73	±0.32	J	18.9	±0.75	J	6.31	±0.37	U	8.50	±0.40	U	
Uranium-235	0.27	±0.08	J	1.07	±0.18	J	0.27	±0.08	U	0.39	±0.09	U	
Uranium-238	7.49	±0.45	U	17.7	±0.73	J	5.92	±0.36	U	9.21	±0.42	U	
Thorium-228	0.15	±0.07	U	0.24	±0.07	J	0.16	±0.09	J	0.17	NA	U	
Thorium-230	0.15	±0.07	U	3.56	±0.26	J	2.92	±0.28	J	2.31	±0.28	J	
Thorium-232	0.04	±0.03	J	0.11	±0.05	J	0.06	NA	U	0.12	NA	U	
Plutonium-238	0.15	NA	U	0.44	NA	U	0.16	NA	U	0.02	NA	U	
Plutonium-239/240	0.05	NA	U	0.11	NA	U	0.04	NA	U	0.02	NA	U	
Ruthenium=106	2.49	±3.37		3.84	±5.00		5.62	±2.88		3.94	±3.29	J	
Cesium-137	2.39	±0.70		0.54	±0.52	J	0.37	±0.37	J	0.24	NA	U	
Technetium-99	1.20	NA	U	1.30	NA	U	1.30	NA	U	2.10	NA	U	
Strontium-90	0.34	NA	U	0.42	NA	U	0.35	NA	U	0.27	NA	U	
Neptunium-237	0.04	NA	U	0.03	NA	U	0.04	NA	U	0.03	NA	U	

See footnote at end of table

TABLE F-4
(Continued)

FEMP ID #	SL24117			SL24113			SS24123			SS24142			
	Depth	6-12"			2-6"			0-2"			0-2"		
		Date	04/27/87		04/27/87		04/23/87			04/28/87			
Isotope	Activity (pCi/g)	Validation Uncertainty	Qualifier	Activity (pCi/g)	Validation Uncertainty	Qualifier	Activity (pCi/g)	Validation Uncertainty	Qualifier	Activity (pCi/g)	Uncertain y	Validation Qualifier	
Uranium-234	46.0	± 0.95	J	26.5	± 0.83		7.21	± 0.38	U	99.2	± 1.48	J	
Uranium-235	1.97	± 0.20	J	1.59	± 0.20	J	0.30	± 0.08	U	4.17	± 0.30	J	
Uranium-238	57.8	± 1.07	J	21.9	± 0.75	J	7.48	± 0.39	U	94.1	± 1.44	J	
Thorium-228	0.39	± 0.24	J	0.13	± 0.08	J	0.30	± 0.08	J	4.80	± 0.79	J	
Thorium-230	0.88	± 0.29	J	14.2	± 0.81	J	9.29	± 0.45		1.16	± 0.48	J	
Thorium-232	0.21	NA	U	0.52	± 0.17	J	0.22	± 0.07		5.33	± 0.80	J	
Plutonium-238	0.48	NA	U	0.62	NA	U	0.15	NA	R	0.27	NA	U	
Plutonium-239/240	0.25	NA	U	0.24	NA	U	0.15	NA	R	0.05	NA	U	
Ruthenium-106	1.73	± 2.54	U	6.35	± 4.28		9.98	± 5.74		7.86	± 4.90		
Cesium-137	0.15	± 0.26	U	1.74	± 0.67		1.38	± 0.72		1.03	± 0.52		
Technetium-99	1.20	NA	U	1.20	NA	U	1.40	NA	U	1.40	NA	U	
Strontium-90	0.23	NA	U	0.26	NA	U	0.24	NA	U	0.21	NA	U	
Neptunium-237	0.03	NA	U	0.03	NA	U	0.03	NA	U	0.03	NA	U	

See footnote at end of table

TABLE F-4
(Continued)

FEMP ID #	SS24133			SS24235			SS24221			SL24236			
	Depth	0-2"			0-2"			0-2"			2-5"		
		Date	05/12/87	04/22/87	04/29/87	04/22/87	04/22/87	04/22/87	04/22/87	04/22/87	04/22/87	04/22/87	
Isotope	Activity (pCi/g)	Uncertainty	Validation Qualifier										
Uranium-234	491	± 10.3		44.4	± 0.89	J	117	± 1.67	J	74.0	± 2.16	J	
Uranium-235	20.1	± 2.04		1.86	± 0.18	J	4.85	± 0.34	J	3.23	± 0.45	J	
Uranium-238	500	± 10.1		42.4	± 0.87	J	124	± 1.71	J	68.9	± 2.09	J	
Thorium-228	1.03	± 0.10	J	41.2	± 4.29	J	1.87	± 0.20	J	7.95	± 0.047	J	
Thorium-230	35.7	± 1.08	J	103	± 6.80	J	7.05	± 0.37	J	28.7	± 0.89	J	
Thorium-232	1.04	± 0.19	J	44.2	± 4.49	J	2.43	± 0.22	J	10.0	± 0.53	J	
Plutonium-238	0.09	NA	U	0.10	NA	U	0.14	NA	U	0.15	NA	R	
Plutonium-239/240	0.05	NA	U	0.02	NA	U	0.14	NA	U	0.15	NA	R	
Ruthenium-106	1.95	NA	U	2.29	± 3.34	J	2.09	NA	U	1.98	NA	U	
Cesium-137	0.25	NA	U	0.28	NA	U	0.27	NA	U	0.61	± 0.36		
Technetium-99	1.2	NA	U	1.30	NA	U	4.0	NA	U	1.30	NA	U	
Strontium-90	0.23	NA	U	0.24	NA	U	0.28	NA	U	0.29	NA	U	
Neptunium-237	0.03	NA	U	0.04	NA	U	0.02	NA	U	0.03	NA	U	

See footnote at end of table

TABLE F-4
(Continued)

FEMP ID #	SL24094			SL24179			SL24052			
	Depth	0-6"			12-18"			6-12"		
		Date	05/12/87		05/12/87		04/17/87			
	Isotope	Activity (pCi/g)	Uncertainty	Validation Qualifier	Activity (pCi/g)	Uncertainty	Validation Qualifier	Activity (pCi/g)	Uncertainty	Validation Qualifier
	Uranium-234	4.16	±0.35	J	31.2	±0.78		28.0	±1.0	
	Uranium-235	0.19	±0.08	J	1.36	±0.16	J	1.2	±0.20	
	Uranium-238	5.43	±0.40	U	29.1	±0.75	J	29.0	±1.0	
	Thorium-228	0.51	±0.16		129	±4.31	J	3.0	±0.70	
	Thorium-230	20.7	±0.86		21.4	±1.76	J	23330.0	±20.0	
	Thorium-232	0.51	±0.15		130	±4.33	J	4.50	±0.70	
	Plutonium-238	0.19	NA	U	0.13	NA	U	0.10	NA	U
	Plutonium-239/240	0.03	NA	U	0.10	NA	U	0.10	NA	U
	Ruthenium-106	3.81	±4.27	J	11.9	±5.56	J	3.00	NA	U
	Cesium-137	0.27	NA	U	0.27	NA	U	0.50	NA	U
	Technetium-99	1.2	NA	U	1.2	NA	U	0.40	NA	U
	Strontium-90	0.32	NA	U	0.37	NA	U	0.60	NA	U
	Neptunium-237	0.08	NA	U	0.13	NA	U	0.10	NA	U

^aNot Applicable

TABLE F-5

TABLE F-5
SOUTH FIELD
SURFACE MEDIA ANALYSES ENVIRONMENTAL SURVEY
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Analyte	FE0108SS	FE0109SS	FE0110SS	FE0112SS	FE0115SS
Asbestos	ND	ND	ND	ND	ND
RADIONUCLIDES (pCi/g)					
Bismuth-214	1.2±0.1	0.75±0.11	3.0±0.1	0.87±0.05	0.92±0.08
Cesium-137	0.74±0.07	0.46±0.07	I	0.08±0.02	0.24±0.03
Radium-226	1.2±0.1G	0.77±0.08G	3.0±0.2G	0.87±0.10G	0.85±0.06G
Thorium-228	1.5±0.2G	1.3±0.2G	2.6±0.1G	0.92±0.05G	1.1±0.1G
Thorium-232	1.3±0.2G	1.2±0.2G	2.7±0.1G	0.84±0.06G	1.1±0.1G
Uranium-235	N	N	N	0.3±0.02	0.79±0.03
Uranium-238	53±8	37±8	N	7.8±2.3	29±6
Total Uranium (mg/kg)	8.8	57.0	7.4	16.0	58
TCLP METALS (mg/L)					
Arsenic	<0.1	<0.5	<0.1	<0.5	<0.1
Barium	0.58 B	0.42 B	0.49 B	0.45 B	0.55 B
Cadmium	<0.02	<0.02	<0.02	<0.02	<0.02
Chromium	<0.03	<0.03	<0.03	<0.03	<0.03
Lead	<0.3	<0.3	<0.3	<0.3	<0.3
Mercury	<0.001	<0.001	<0.001	<0.001	<0.001
Selenium	<0.5	<0.5	<0.5	<0.5	<0.5
Silver	<0.1	<0.1	<0.1	<0.1	<0.1
VOLATILE ORGANIC COMPOUNDS (µg/kg)					
1,1-Dichloroethane	<0.005	<5	<0.005	<5	<0.005
1,1,1-Trichloroethane	<0.005	<5	<0.005	<5	<0.005
1,1,2-Trichloroethane	<0.005	<5	<0.005	<5	<0.005
1,1,2,2-Tetrachloroethane	<0.005	<5	<0.005	<5	<0.005
1,2-Dichloroethane	<0.005	<5	<0.005	<5	<0.005
1,2-Dichloropropane	<0.005	<5	<0.005	<5	<0.005
2-Hexanone	<0.01	<10	<0.01	<10	<0.01
2-Butanone	0.003 BJ	<10	0.035	10 B	0.004 BJ
2-Chloroethylvinyl ether	<0.01	<10	<0.01	<10	<0.01
4-Methyl-2-pentanone	<0.01	<10	<0.01	<10	<0.01
Acetone	0.007 BJ	<10	0.180 Z5	120 Z5	0.016 B
Benzene	<0.005	<5	<0.005	<5	<0.005
Bromodichloromethane	<0.005	<5	<0.005	<5	<0.005
Bromoform	<0.005	<5	<0.005	<5	<0.005

See notes at end of table

TABLE F-5
(Continued)

Analyte	FE0108SS	FE0109SS	FE0110SS	FE0112SS	FE0115SS
VOLATILE ORGANIC COMPOUNDS ($\mu\text{g}/\text{kg}$)					
(Continued)					
Bromomethane	<10	<10	<10	<10	<10
Carbon tetrachloride	<0.005	<5	<0.005	<5	<0.005
Carbon disulfide	<0.005	<5	<0.005	<5	<0.005
Chlorobenzene	<5	<5	<5	<5	<5
Chloroethane	<10	<10	<10	<10	<10
Chloroform	<5	<5	10	4 BJ	3 BJ
Chloromethane	<10	<10	<10	<10	<10
Cis-1,3-dichloropropene	<5	<5	<5	<5	<5
Dibromochloromethane	<5	<5	<5	<5	<5
Ethyl benzene	<5	<5	<5	<5	<5
Methylene chloride	32	18 B	280 Z5	84 Z5	51
Styrene	<5	<5	<5	<5	<5
Tetrachloroethene	<5	<5	<5	<5	<5
Toluene	7 B	4 BJ	26	13 BJ	4 BJ
Total xylenes	<5	<5	<5	<5	<5
Trans-1,2-dichloroethene	<5	<5	<5	<5	<5
Trans-1,3-dichloropropene	<5	<5	<5	<5	<5
Trichloroethene	<5	<5	<5	<5	<5
Vinyl acetate	<10	<10	<10	<10	<10
Vinyl chloride	<10	<10	<10	<10	<10
PCBs (mg/kg)					
Aroclor-1242	NA	NA	NA	NA	NA
Aroclor-1248	NA	NA	NA	NA	NA
Aroclor-1254	NA	NA	NA	NA	NA
Aroclor-1260	NA	NA	NA	NA	NA

ND = None Detected

Z5 = The samples exhibited low internal standard recovery due to the retention properties of the matrix. The reported detection limits are for soil samples and should not be used as the minimum attainable limits

G = Gamma Spectroscopy Analysis

N = Nuclide not identified by GAMANAL analysis as being present in the sample; no value reported

I = Nuclide identified by GAMANAL analysis of sample spectrum, but values did not exceed room background at the 95% confidence level; no value reported

B = Analyte was found in the blank as well as the sample

J = Estimated value of compound present but less than the specified detection limit

NA = Not analyzed

6.09

TABLE F-6

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TABLE F-6A
SOUTH FIELD
RI/FS SUBSURFACE SOIL RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
BORING NUMBER	1014			1046			1046		
SAMPLE NUMBER	007354			008014			008024		
	1.5 - 3			0 - 1.5			15 - 16.5		
SAMPLING DATE	10/17/87			02/06/88			02/08/88		
RADIOLOGICAL PARAMETERS									
CS-137	0.200	pCi/g	UJ	0.200	pCi/g	UJ	0.200	pCi/g	UJ
NP-237	0.600	pCi/g	UJ	0.600	pCi/g	U	0.600	pCi/g	U
PU-238	0.600	pCi/g	U	0.600	pCi/g	U	0.600	pCi/g	U
PU-239/240	0.600	pCi/g	U	0.600	pCi/g	U	0.600	pCi/g	U
RA-226	1.000	pCi/g	J	1.300	pCi/g	J	0.300	pCi/g	UJ
RA-228	0.900	pCi/g	J	1.300	pCi/g	J	0.500	pCi/g	J
RU-106	1.000	pCi/g	UJ	1.000	pCi/g	UJ	1.000	pCi/g	UJ
SR-90	0.500	pCi/g	U	0.500	pCi/g	U	0.500	pCi/g	U
TC-99	0.900	pCi/g	U	2.800	pCi/g	R	2.400	pCi/g	R
TH-228	0.800	pCi/g	-	1.100	pCi/g	-	0.500	pCi/g	U
TH-230	2.000	pCi/g	-	1.300	pCi/g	-	1.000	pCi/g	J
TH-232	0.800	pCi/g	-	0.800	pCi/g	-	0.600	pCi/g	U
U-234	1.400	pCi/g	-	1.700	pCi/g	-	0.600	pCi/g	J
U-235/236	0.600	pCi/g	U	0.600	pCi/g	U	0.600	pCi/g	U
U-238	1.400	pCi/g	-	2.100	pCi/g	-	0.700	pCi/g	-

F-6-1

925000

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1046	SAMPLE NUMBER	098000	RESULTS	1407	RESULTS	1407
SAMPLING DATE	05/16/89	RESULTS	0 - 0.5	RESULTS	098001	RESULTS	0.5 - 1
RADIOLOGICAL PARAMETERS	UNITS	VQ	UNITS	VQ	UNITS	VQ	
CS-137	pc ⁻¹ /g	UJ		NA		NA	
NP-237	pc ⁻¹ /g	U		NA		NA	
PU-238	pc ⁻¹ /g	U		NA		NA	
PU-239/240	pc ⁻¹ /g	U		NA		NA	
RA-226	pc ⁻¹ /g	J		NA		NA	
RA-228	pc ⁻¹ /g	UJ		NA		NA	
RU-106	pc ⁻¹ /g	UJ		NA		NA	
SR-90	pc ⁻¹ /g	U		NA		NA	
TC-99	pc ⁻¹ /g	R		NA		NA	
TH-228	pc ⁻¹ /g	U		NA		NA	
TH-230	pc ⁻¹ /g	J		NA		NA	
TH-232	pc ⁻¹ /g	U		NA		NA	
U-234	pc ⁻¹ /g	U		NA		NA	
U-235/236	pc ⁻¹ /g	U		NA		NA	
U-238	pc ⁻¹ /g	U		NA		NA	
U-TOTAL	mg/kg	R			6.000	mg/kg	
	NA		3.000				

F-6-2

000572

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1407	1407	1407
SAMPLE NUMBER	098002	098003	098004
SAMPLING DATE	1.5 - 2 05/16/89	3 - 3.5 05/16/89	4.5 - 5 05/16/89
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
U-TOTAL	5.000	mg/kg	-
	3.000	mg/kg	-
	4.000	mg/kg	-

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825000

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1407	1407	1407
SAMPLE NUMBER	098006	098008	098009
	6 - 6.5	7.5 - 8	8 - 8.5
SAMPLING DATE	05/16/89	05/16/89	05/16/89
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
U-TOTAL	3.000	mg/kg	R
	5.000	mg/kg	-
	1.000	mg/kg	-

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000579

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1433	1455	1455
SAMPLE NUMBER	047019	055900	055901
SAMPLING DATE	2 - 5 07/29/92	0 - 3 11/04/89	0 - 3.75 11/04/89
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	U
GROSS ALPHA	168.000	pCi/g	NV
GROSS BETA	96.000	pCi/g	NV
NP-237	0.600	pCi/g	UJ
PU-238	0.600	pCi/g	UJ
PU-239/240	0.600	pCi/g	UJ
RA-226	7.670	pCi/g	-
RA-228	19.000	pCi/g	-
RU-106	1.500	pCi/g	U
SR-90	1.910	pCi/g	-
TC-99	0.900	pCi/g	UJ
TH-228	20.300	pCi/g	J
TH-230	5.860	pCi/g	J
TH-232	17.500	pCi/g	J
TH-TOTAL	158.000	ug/g	J
U-234	41.200	pCi/g	J
U-235/236	2.240	pCi/g	J
U-238	41.300	pCi/g	J
U-TOTAL	128.000	mg/kg	-
	0.200	pCi/g	UJ
	NA		NA
	0.600	pCi/g	U
	0.600	pCi/g	UJ
	0.600	pCi/g	U
	5.930	pCi/g	J
	1.270	pCi/g	J
	1.000	pCi/g	UJ
	0.500	pCi/g	R
	0.900	pCi/g	R
	1.520	pCi/g	J
	10.300	pCi/g	J
	1.290	pCi/g	-
	11.600	ug/g	-
	12.600	pCi/g	-
	0.748	pCi/g	-
	14.600	pCi/g	-
	42.600	mg/kg	J
	0.200	pCi/g	UJ
	NA		NA
	0.600	pCi/g	U
	0.600	pCi/g	UJ
	0.600	pCi/g	U
	1.300	pCi/g	J
	1.580	pCi/g	J
	1.000	pCi/g	UJ
	0.500	pCi/g	R
	0.900	pCi/g	R
	1.420	pCi/g	J
	2.120	pCi/g	J
	1.190	pCi/g	-
	10.700	ug/g	-
	2.440	pCi/g	-
	0.600	pCi/g	U
	3.100	pCi/g	-
	10.300	mg/kg	J

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000580

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER SAMPLING DATE	1456 055902 0 - 3.75 11/04/89	1456 055903 0 - 4.25 11/04/89	1457 055904 0 - 3.75 11/04/89						
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	UJ	0.200	pCi/g	UJ	0.200	pCi/g	UJ
NP-237	0.600	pCi/g	U	0.600	pCi/g	U	0.600	pCi/g	U
PU-238	0.600	pCi/g	UJ	0.600	pCi/g	UJ	0.600	pCi/g	UJ
PU-239/240	1.230	pCi/g	-	0.600	pCi/g	U	0.600	pCi/g	U
RA-226	0.940	pCi/g	J	1.180	pCi/g	J	15.700	pCi/g	J
RA-228	0.900	pCi/g	J	1.300	pCi/g	J	2.460	pCi/g	J
RU-106	1.000	pCi/g	UJ	1.000	pCi/g	UJ	1.000	pCi/g	UJ
SR-90	0.500	pCi/g	U	0.500	pCi/g	U	0.500	pCi/g	U
TC-99	0.900	pCi/g	R	0.900	pCi/g	R	0.900	pCi/g	R
TH-228	1.070	pCi/g	J	1.250	pCi/g	J	2.630	pCi/g	J
TH-230	1.370	pCi/g	J	1.780	pCi/g	J	57.300	pCi/g	J
TH-232	1.030	pCi/g	-	1.050	pCi/g	-	3.440	pCi/g	-
TH-TOTAL	9.330	ug/g	-	9.440	ug/g	-	31.000	ug/g	-
U-234	9.360	pCi/g	-	22.100	pCi/g	-	26.400	pCi/g	-
U-235/236	0.665	pCi/g	-	1.120	pCi/g	-	1.660	pCi/g	-
U-238	10.600	pCi/g	-	22.600	pCi/g	-	28.100	pCi/g	-
U-TOTAL	27.700	mg/kg	J	74.400	mg/kg	R	71.400	mg/kg	J

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000581

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1457				1458				1458			
SAMPLE NUMBER	055905				055913				055914			
SAMPLING DATE	0 - 4.25				0 - 4				0 - 4.5			
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ		RESULTS	UNITS	VQ		RESULTS	UNITS	VQ	
CS-137	0.200	pCi/g	UJ		0.200	pCi/g	UJ		0.200	pCi/g	UJ	
NP-237	0.600	pCi/g	U		0.600	pCi/g	UJ		0.600	pCi/g	UJ	
PU-238	0.600	pCi/g	UJ		0.600	pCi/g	UJ		0.600	pCi/g	UJ	
PU-239/240	0.600	pCi/g	U		0.600	pCi/g	U		0.600	pCi/g	U	
RA-226	1.440	pCi/g	J		1.480	pCi/g	J		1.410	pCi/g	J	
RA-228	1.560	pCi/g	J		0.500	pCi/g	R		1.950	pCi/g	J	
RU-106	1.000	pCi/g	UJ		1.000	pCi/g	UJ		1.000	pCi/g	UJ	
SR-90	0.500	pCi/g	U		0.500	pCi/g	R		0.500	pCi/g	U	
TC-99	0.900	pCi/g	R		0.900	pCi/g	R		0.900	pCi/g	R	
TH-228	1.300	pCi/g	J		1.780	pCi/g	J		2.060	pCi/g	J	
TH-230	2.160	pCi/g	J		3.180	pCi/g	J		4.410	pCi/g	J	
TH-232	1.290	pCi/g	-		1.740	pCi/g	-		1.870	pCi/g	-	
TH-TOTAL	11.600	ug/g	-		15.700	ug/g	-		16.900	ug/g	-	
U-234	4.060	pCi/g	-		24.200	pCi/g	-		22.400	pCi/g	-	
U-235/236	0.600	pCi/g	U		1.580	pCi/g	-		1.180	pCi/g	-	
U-238	4.410	pCi/g	-		23.700	pCi/g	-		23.600	pCi/g	-	
U-TOTAL	11.900	mg/kg	J		76.100	mg/kg	J		59.800	mg/kg	J	

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000582

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1459	1459	1460
SAMPLE NUMBER	055915	055916	055917
SAMPLING DATE	0 - 5 11/06/89	0 - 6 11/06/89	0 - 3.5 11/06/89
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	UJ
NP-237	0.600	pCi/g	UJ
PU-238	0.600	pCi/g	UJ
PU-239/240	0.600	pCi/g	U
RA-226	1.600	pCi/g	J
RA-228	1.370	pCi/g	J
RU-106	1.000	pCi/g	UJ
SR-90	0.500	pCi/g	R
TC-99	0.900	pCi/g	R
TH-228	1.520	pCi/g	J
TH-230	1.560	pCi/g	J
TH-232	1.310	pCi/g	-
TH-TOTAL	11.800	ug/g	-
U-234	78.300	pCi/g	-
U-235/236	4.050	pCi/g	-
U-238	82.700	pCi/g	-
U-TOTAL	228.000	mg/kg	J
	0.200	pCi/g	UJ
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	0.600	pCi/g	U
	0.600	pCi/g	J
	1.310	pCi/g	J
	1.250	pCi/g	J
	1.000	pCi/g	UJ
	0.500	pCi/g	U
	0.900	pCi/g	R
	1.620	pCi/g	J
	2.160	pCi/g	J
	1.330	pCi/g	-
	12.000	ug/g	-
	57.200	pCi/g	-
	2.730	pCi/g	-
	60.800	pCi/g	-
	189.000	mg/kg	J
	0.200	pCi/g	UJ
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	0.600	pCi/g	U
	0.600	pCi/g	J
	1.060	pCi/g	J
	0.940	pCi/g	J
	1.000	pCi/g	UJ
	0.500	pCi/g	U
	0.900	pCi/g	R
	1.280	pCi/g	J
	1.730	pCi/g	J
	0.959	pCi/g	-
	8.650	ug/g	-
	119.000	pCi/g	-
	20.600	pCi/g	-
	131.000	pCi/g	-
	394.000	mg/kg	J

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000583

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1460	1461	1461
SAMPLE NUMBER	055918	055926	055927
SAMPLING DATE	0 - 4.25 11/06/89	0 - 4 11/07/89	0 - 5 11/07/89
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	UJ
NP-237	0.600	pCi/g	UJ
PU-238	0.600	pCi/g	UJ
PU-239/240	0.600	pCi/g	U
RA-226	1.150	pCi/g	J
RA-228	0.850	pCi/g	J
RU-106	1.000	pCi/g	UJ
SR-90	0.500	pCi/g	U
TC-99	0.900	pCi/g	R
TH-228	1.260	pCi/g	J
TH-230	3.220	pCi/g	J
TH-232	1.120	pCi/g	-
TH-TOTAL	10.100	ug/g	-
U-234	75.700	pCi/g	-
U-235/236	3.770	pCi/g	-
U-238	78.800	pCi/g	-
U-TOTAL	230.000	mg/kg	J
	0.200	pCi/g	UJ
	0.600	pCi/g	R
	0.600	pCi/g	UJ
	0.600	pCi/g	U
	1.230	pCi/g	J
	1.060	pCi/g	J
	1.000	pCi/g	UJ
	0.500	pCi/g	R
	0.900	pCi/g	R
	1.270	pCi/g	J
	4.120	pCi/g	J
	1.050	pCi/g	-
	9.460	ug/g	-
	4.730	pCi/g	-
	0.600	pCi/g	UJ
	5.580	pCi/g	-
	19.100	mg/kg	J
	0.200	pCi/g	UJ
	0.600	pCi/g	R
	0.600	pCi/g	UJ
	0.600	pCi/g	U
	1.650	pCi/g	J
	1.410	pCi/g	J
	1.000	pCi/g	UJ
	0.500	pCi/g	R
	0.900	pCi/g	R
	1.720	pCi/g	J
	2.130	pCi/g	J
	1.400	pCi/g	-
	12.600	ug/g	-
	1.490	pCi/g	-
	0.600	pCi/g	UJ
	1.420	pCi/g	-
	5.170	mg/kg	J

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000584

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1462			1462			1463				
SAMPLE NUMBER	055928	RESULTS	UNITS	VQ	055929	RESULTS	UNITS	VQ	055930		
SAMPLING DATE	0 - 4				0 - 5				0 - 3.5		
RADIOLOGICAL PARAMETERS	11/07/89				11/07/89				11/07/89		
<hr/>											
CS-137	0.200	pCi/g	UJ		0.200	pCi/g	UJ		0.200	pCi/g	U
NP-237	0.600	pCi/g	R		0.600	pCi/g	R		0.600	pCi/g	R
PU-238	0.600	pCi/g	UJ		0.600	pCi/g	UJ		0.600	pCi/g	UJ
PU-239/240	0.600	pCi/g	U		0.600	pCi/g	U		0.600	pCi/g	U
RA-226	1.300	pCi/g	J		1.380	pCi/g	J		0.940	pCi/g	-
RA-228	0.810	pCi/g	J		1.370	pCi/g	J		0.730	pCi/g	-
RU-106	1.000	pCi/g	UJ		1.000	pCi/g	UJ		1.000	pCi/g	U
SR-90	0.500	pCi/g	U		0.500	pCi/g	U		0.500	pCi/g	U
TC-99	0.900	pCi/g	R		0.900	pCi/g	R		0.900	pCi/g	R
TH-228	0.982	pCi/g	J		1.270	pCi/g	J		5.320	pCi/g	J
TH-230	3.330	pCi/g	J		2.060	pCi/g	J		4.390	pCi/g	J
TH-232	1.050	pCi/g	-		1.270	pCi/g	-		0.734	pCi/g	-
TH-TOTAL	9.450	ug/g	-		11.500	ug/g	-		6.620	ug/g	-
U-234	5.040	pCi/g	-		4.710	pCi/g	-		19.700	pCi/g	-
U-235/236	0.600	pCi/g	UJ		0.600	pCi/g	UJ		2.550	pCi/g	J
U-238	6.210	pCi/g	-		4.700	pCi/g	-		61.400	pCi/g	-
U-TOTAL	19.400	mg/kg	J		14.800	mg/kg	J		121.000	mg/kg	-

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000585

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1463	1464	1464
SAMPLE NUMBER	055931	055939	055940
SAMPLING DATE	0 - 4.5 11/07/89	0 - 3.75 11/08/89	0 - 4.5 11/08/89
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pc ⁻¹ /g	UJ
NP-237	0.600	pc ⁻¹ /g	R
PU-238	0.600	pc ⁻¹ /g	UJ
PU-239/240	0.600	pc ⁻¹ /g	U
RA-226	1.510	pc ⁻¹ /g	J
RA-228	1.260	pc ⁻¹ /g	J
RU-106	1.000	pc ⁻¹ /g	UJ
SR-90	0.500	pc ⁻¹ /g	U
TC-99	0.900	pc ⁻¹ /g	R
TH-228	1.220	pc ⁻¹ /g	J
TH-230	2.010	pc ⁻¹ /g	J
TH-232	1.160	pc ⁻¹ /g	-
TH-TOTAL	10.400	ug/g	-
U-234	1.150	pc ⁻¹ /g	-
U-235/236	0.600	pc ⁻¹ /g	UJ
U-238	1.460	pc ⁻¹ /g	-
U-TOTAL	5.520	mg/kg	J
	0.200	pc ⁻¹ /g	R
	0.600	pc ⁻¹ /g	UJ
	0.600	pc ⁻¹ /g	UJ
	0.600	pc ⁻¹ /g	U
	1.180	pc ⁻¹ /g	R
	0.950	pc ⁻¹ /g	R
	1.000	pc ⁻¹ /g	R
	0.500	pc ⁻¹ /g	UJ
	0.900	pc ⁻¹ /g	R
	0.983	pc ⁻¹ /g	J
	1.460	pc ⁻¹ /g	J
	0.833	pc ⁻¹ /g	-
	7.510	ug/g	-
	1.080	pc ⁻¹ /g	-
	0.600	pc ⁻¹ /g	UJ
	1.370	pc ⁻¹ /g	-
	10.800	mg/kg	R
	0.200	pc ⁻¹ /g	UJ
	0.600	pc ⁻¹ /g	UJ
	0.600	pc ⁻¹ /g	U
	1.440	pc ⁻¹ /g	J
	1.260	pc ⁻¹ /g	J
	1.000	pc ⁻¹ /g	UJ
	0.500	pc ⁻¹ /g	UJ
	0.900	pc ⁻¹ /g	R
	1.480	pc ⁻¹ /g	J
	1.820	pc ⁻¹ /g	J
	1.230	pc ⁻¹ /g	-
	11.100	ug/g	-
	1.960	pc ⁻¹ /g	-
	0.600	pc ⁻¹ /g	UJ
	1.760	pc ⁻¹ /g	-
	5.030	mg/kg	J

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January 21, 1995

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1465	1465	1466
SAMPLE NUMBER	055941	055942	055943
SAMPLING DATE	0 - 3.5 11/08/89	0 - 4.5 11/08/89	0 - 3 11/08/89
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	R
NP-237	0.600	pCi/g	UJ
PU-238	0.600	pCi/g	UJ
PU-239/240	0.600	pCi/g	U
RA-226	1.070	pCi/g	R
RA-228	0.800	pCi/g	R
RU-106	1.000	pCi/g	R
SR-90	0.500	pCi/g	U
TC-99	0.900	pCi/g	R
TH-228	1.120	pCi/g	J
TH-230	1.300	pCi/g	J
TH-232	0.969	pCi/g	-
TH-TOTAL	8.750	ug/g	-
U-234	1.680	pCi/g	-
U-235/236	0.757	pCi/g	J
U-238	1.090	pCi/g	-
U-TOTAL	7.330	mg/kg	R
	0.200	pCi/g	UJ
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	0.600	pCi/g	U
	1.300	pCi/g	J
	1.310	pCi/g	J
	1.000	pCi/g	UJ
	0.500	pCi/g	U
	0.900	pCi/g	R
	1.220	pCi/g	J
	1.410	pCi/g	J
	0.856	pCi/g	-
	7.730	ug/g	-
	3.270	pCi/g	-
	0.600	pCi/g	UJ
	3.500	pCi/g	-
	4.260	mg/kg	J
	0.200	pCi/g	R
	0.600	pCi/g	UJ
	0.600	pCi/g	U
	0.790	pCi/g	R
	0.500	pCi/g	R
	1.000	pCi/g	R
	0.500	pCi/g	U
	0.900	pCi/g	R
	0.824	pCi/g	J
	1.300	pCi/g	J
	0.840	pCi/g	-
	7.580	ug/g	-
	1.130	pCi/g	-
	0.600	pCi/g	UJ
	1.260	pCi/g	-
	10.600	mg/kg	R

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000588

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1466	1467	1467
SAMPLE NUMBER	055944	055952	055953
SAMPLING DATE	0 - 4.5 11/08/89	0 - 2.5 11/14/89	0 - 3.5 11/14/89
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	UJ
NP-237	0.600	pCi/g	UJ
PU-238	0.600	pCi/g	UJ
PU-239/240	0.600	pCi/g	U
RA-226	1.560	pCi/g	J
RA-228	1.460	pCi/g	J
RU-106	1.000	pCi/g	UJ
SR-90	0.920	pCi/g	-
TC-99	0.900	pCi/g	R
TH-228	1.350	pCi/g	J
TH-230	1.440	pCi/g	J
TH-232	1.140	pCi/g	-
TH-TOTAL	10.300	ug/g	-
U-234	4.710	pCi/g	-
U-235/236	0.600	pCi/g	UJ
U-238	5.360	pCi/g	-
U-TOTAL	4.720	mg/kg	J
	0.200	pCi/g	U
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	0.304	pCi/g	U
	1.050	pCi/g	-
	1.000	pCi/g	U
	0.500	pCi/g	U
	0.900	pCi/g	R
	0.983	pCi/g	J
	1.700	pCi/g	J
	0.703	pCi/g	J
	6.350	ug/g	J
	3.820	pCi/g	J
	0.600	pCi/g	UJ
	4.140	pCi/g	J
	11.380	mg/kg	-
	0.200	pCi/g	U
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	1.560	pCi/g	-
	1.350	pCi/g	-
	1.000	pCi/g	U
	0.500	pCi/g	U
	0.900	pCi/g	R
	1.120	pCi/g	J
	1.990	pCi/g	J
	1.180	pCi/g	J
	10.600	ug/g	J
	0.965	pCi/g	J
	0.600	pCi/g	UJ
	1.320	pCi/g	J
	8.590	mg/kg	-

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TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1468	1468	1469
SAMPLE NUMBER	055954	055955	055956
SAMPLING DATE	0 - 2.5 11/14/89	0 - 3.5 11/14/89	0 - 2.5 11/14/89
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	UJ
NP-237	0.600	pCi/g	UJ
PU-238	0.600	pCi/g	J
PU-239/240	0.600	pCi/g	UJ
RA-226	0.940	pCi/g	J
RA-228	0.900	pCi/g	J
RU-106	1.000	pCi/g	UJ
SR-90	0.500	pCi/g	R
TC-99	0.900	pCi/g	R
TH-228	0.909	pCi/g	J
TH-230	1.610	pCi/g	J
TH-232	0.773	pCi/g	J
TH-TOTAL	6.970	ug/g	J
U-234	3.420	pCi/g	J
U-235/236	0.600	pCi/g	UJ
U-238	3.560	pCi/g	J
U-TOTAL	12.260	mg/kg	J
	0.200	pCi/g	UJ
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	1.580	pCi/g	J
	0.540	pCi/g	UJ
	1.000	pCi/g	UJ
	0.500	pCi/g	R
	0.900	pCi/g	R
	1.190	pCi/g	J
	1.820	pCi/g	J
	1.130	pCi/g	J
	10.200	ug/g	J
	1.310	pCi/g	J
	0.600	pCi/g	UJ
	1.320	pCi/g	J
	4.500	mg/kg	UJ
	0.200	pCi/g	UJ
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	0.900	pCi/g	DJ
	0.740	pCi/g	DJ
	1.000	pCi/g	UJ
	0.500	pCi/g	U
	0.900	pCi/g	R
	0.877	pCi/g	J
	1.200	pCi/g	J
	0.600	pCi/g	UJ
	4.880	ug/g	J
	2.590	pCi/g	J
	0.600	pCi/g	UJ
	3.180	pCi/g	J
	10.890	mg/kg	J

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000589

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1469	1470	1470
SAMPLE NUMBER	055957	055966	055967
SAMPLING DATE	0 - 3.5 11/14/89	0 - 3 11/15/89	0 - 4 11/15/89
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	UJ
NP-237	0.600	pCi/g	UJ
PU-238	0.600	pCi/g	UJ
PU-239/240	0.600	pCi/g	UJ
RA-226	1.270	pCi/g	J
RA-228	1.390	pCi/g	J
RU-106	1.000	pCi/g	UJ
SR-90	0.500	pCi/g	U
TC-99	0.900	pCi/g	R
TH-228	0.954	pCi/g	J
TH-230	1.190	pCi/g	J
TH-232	0.885	pCi/g	J
TH-TOTAL	7.990	ug/g	J
U-234	1.140	pCi/g	J
U-235/236	0.600	pCi/g	UJ
U-238	1.380	pCi/g	J
U-TOTAL	4.960	mg/kg	J
	0.200	pCi/g	R
	0.600	pCi/g	UJ
	0.600	pCi/g	U
	0.600	pCi/g	U
	1.180	pCi/g	R
	0.897	pCi/g	R
	1.000	pCi/g	R
	0.500	pCi/g	U
	0.900	pCi/g	U
	1.100	pCi/g	-
	1.940	pCi/g	-
	1.080	pCi/g	-
	9.700	ug/g	-
	3.790	pCi/g	-
	0.600	pCi/g	U
	4.040	pCi/g	-
	11.600	mg/kg	-
	0.200	pCi/g	R
	0.600	pCi/g	UJ
	0.600	pCi/g	U
	0.600	pCi/g	U
	0.315	pCi/g	R
	0.967	pCi/g	R
	1.000	pCi/g	R
	0.660	pCi/g	J
	0.900	pCi/g	-
	1.050	pCi/g	-
	1.630	pCi/g	-
	0.903	pCi/g	-
	8.150	ug/g	-
	1.510	pCi/g	-
	0.600	pCi/g	U
	1.610	pCi/g	-
	5.060	mg/kg	-

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0005000

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1471	1471	1472
SAMPLE NUMBER	055968	055969	055970
SAMPLING DATE	0 - 4 11/16/89	0 - 5.5 11/16/89	0 - 4 11/16/89
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	U
NP-237	0.600	pCi/g	UJ
PU-238	0.600	pCi/g	U
PU-239/240	0.600	pCi/g	U
RA-226	1.240	pCi/g	-
RA-228	0.994	pCi/g	-
RU-106	1.000	pCi/g	U
SR-90	0.500	pCi/g	U
TC-99	0.900	pCi/g	-
TH-228	0.874	pCi/g	-
TH-230	1.220	pCi/g	-
TH-232	0.850	pCi/g	-
TH-TOTAL	7.670	ug/g	-
U-234	1.520	pCi/g	-
U-235/236	0.600	pCi/g	U
U-238	2.120	pCi/g	-
U-TOTAL	6.890	mg/kg	-
	0.200	pCi/g	U
	0.600	pCi/g	UJ
	0.600	pCi/g	U
	0.600	pCi/g	U
	0.300	pCi/g	U
	1.090	pCi/g	-
	1.000	pCi/g	U
	0.500	pCi/g	-
	0.900	pCi/g	U
	1.240	pCi/g	-
	1.900	pCi/g	-
	1.000	pCi/g	-
	9.050	ug/g	-
	1.040	pCi/g	-
	0.600	pCi/g	U
	1.350	pCi/g	-
	5.240	mg/kg	-
	0.200	pCi/g	U
	0.600	pCi/g	UJ
	0.600	pCi/g	U
	0.600	pCi/g	U
	1.330	pCi/g	-
	0.961	pCi/g	-
	1.000	pCi/g	U
	0.500	pCi/g	R
	0.900	pCi/g	U
	0.999	pCi/g	-
	2.860	pCi/g	-
	0.895	pCi/g	-
	8.080	ug/g	-
	3.460	pCi/g	-
	0.600	pCi/g	U
	3.640	pCi/g	-
	10.200	mg/kg	-

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000591

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1472	1473	1473
SAMPLE NUMBER	055971	055979	055980
SAMPLING DATE	0 - 5 11/16/89	0 - 3.5 11/17/89	0 - 5 11/17/89
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	R
NP-237	0.600	pCi/g	UJ
PU-238	0.600	pCi/g	U
PU-239/240	0.600	pCi/g	U
RA-226	1.060	pCi/g	R
RA-228	1.090	pCi/g	R
RU-106	1.000	pCi/g	R
SR-90	1.100	pCi/g	J
TC-99	0.900	pCi/g	U
TH-228	1.070	pCi/g	-
TH-230	1.650	pCi/g	-
TH-232	1.050	pCi/g	-
TH-TOTAL	9.490	ug/g	-
U-234	2.130	pCi/g	-
U-235/236	0.600	pCi/g	U
U-238	2.060	pCi/g	-
U-TOTAL	9.900	mg/kg	-
	0.200	pCi/g	UJ
	0.600	pCi/g	UJ
	0.600	pCi/g	U
	0.600	pCi/g	U
	0.300	pCi/g	UJ
	1.070	pCi/g	J
	1.000	pCi/g	UJ
	0.500	pCi/g	R
	0.900	pCi/g	UJ
	1.470	pCi/g	-
	1.870	pCi/g	-
	0.912	pCi/g	-
	8.230	ug/g	-
	1.680	pCi/g	J
	0.600	pCi/g	UJ
	1.860	pCi/g	J
	7.020	mg/kg	J
	0.200	pCi/g	R
	0.600	pCi/g	UJ
	0.600	pCi/g	U
	0.600	pCi/g	U
	0.771	pCi/g	R
	0.770	pCi/g	R
	1.000	pCi/g	R
	653.000	pCi/g	R
	0.900	pCi/g	UJ
	0.893	pCi/g	-
	0.600	pCi/g	U
	0.600	pCi/g	U
	0.600	pCi/g	U
	5.000	ug/g	-
	0.673	pCi/g	J
	0.600	pCi/g	UJ
	0.923	pCi/g	J
	2.150	mg/kg	R

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000592

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1473	1474	1474
SAMPLE NUMBER	055981	055982	055983
SAMPLING DATE	0 - 10 11/17/89	0 - 3.5 11/17/89	0 - 5 11/17/89
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	R
NP-237	0.600	pCi/g	UJ
PU-238	0.600	pCi/g	U
PU-239/240	0.600	pCi/g	U
RA-226	1.030	pCi/g	R
RA-228	0.948	pCi/g	R
RU-106	1.000	pCi/g	R
SR-90	0.500	pCi/g	R
TC-99	0.900	pCi/g	UJ
TH-228	0.719	pCi/g	-
TH-230	0.600	pCi/g	U
TH-232	0.600	pCi/g	U
TH-TOTAL	4.930	ug/g	-
U-234	1.150	pCi/g	J
U-235/236	0.600	pCi/g	UJ
U-238	1.050	pCi/g	J
U-TOTAL	4.000	mg/kg	R
	0.200	pCi/g	U
	0.600	pCi/g	UJ
	0.600	pCi/g	U
	0.600	pCi/g	U
	1.220	pCi/g	-
	1.070	pCi/g	-
	1.000	pCi/g	U
	0.600	pCi/g	R
	0.900	pCi/g	UJ
	1.060	pCi/g	-
	0.600	pCi/g	U
	0.883	pCi/g	-
	7.970	ug/g	-
	1.790	pCi/g	U
	0.600	pCi/g	UJ
	1.890	pCi/g	U
	9.920	mg/kg	-
	0.200	pCi/g	U
	0.600	pCi/g	UJ
	0.600	pCi/g	U
	0.926	pCi/g	-
	0.975	pCi/g	-
	1.000	pCi/g	U
	0.500	pCi/g	R
	0.900	pCi/g	UJ
	0.962	pCi/g	-
	1.290	pCi/g	-
	0.793	pCi/g	-
	7.150	ug/g	-
	0.887	pCi/g	J
	0.600	pCi/g	UJ
	1.070	pCi/g	J
	3.090	mg/kg	-

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000593

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1474			1475			1475				
SAMPLE NUMBER	055984			055985			055986				
SAMPLING DATE	0 - 10 11/17/89			0 - 3.75 11/17/89			0 - 5 11/17/89				
RADIOLOGICAL PARAMETERS											
	RESULTS	UNITS	VQ		RESULTS	UNITS	VQ		RESULTS		
CS-137	0.200	pCi/g	R		0.200	pCi/g	U		0.200	pCi/g	U
NP-237	0.600	pCi/g	UJ		0.600	pCi/g	UJ		0.600	pCi/g	UJ
PU-238	0.600	pCi/g	UJ		0.600	pCi/g	U		0.600	pCi/g	U
PU-239/240	0.600	pCi/g	UJ		0.600	pCi/g	U		0.600	pCi/g	U
RA-226	1.050	pCi/g	R		0.300	pCi/g	U		1.080	pCi/g	-
RA-228	0.846	pCi/g	R		0.645	pCi/g	-		1.190	pCi/g	-
RU-106	1.000	pCi/g	R		1.000	pCi/g	U		1.000	pCi/g	U
SR-90	0.500	pCi/g	R		0.650	pCi/g	R		2.500	pCi/g	R
TC-99	0.900	pCi/g	UJ		0.900	pCi/g	UJ		0.900	pCi/g	UJ
TH-228	0.901	pCi/g	-		1.080	pCi/g	-		1.170	pCi/g	-
TH-230	1.210	pCi/g	-		2.840	pCi/g	-		2.160	pCi/g	-
TH-232	0.678	pCi/g	-		0.921	pCi/g	-		1.080	pCi/g	-
TH-TOTAL	6.150	ug/g	-		8.310	ug/g	-		9.720	ug/g	-
U-234	1.500	pCi/g	J		1.850	pCi/g	J		1.030	pCi/g	J
U-235/236	0.600	pCi/g	UJ		0.600	pCi/g	UJ		0.600	pCi/g	UJ
U-238	1.380	pCi/g	J		2.100	pCi/g	J		1.010	pCi/g	J
U-TOTAL	4.540	mg/kg	R		8.280	mg/kg	-		3.290	mg/kg	-

F-6-19

000594

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1475	1516	1516
SAMPLE NUMBER	055987	055371	055373
SAMPLING DATE	0 - 10 11/17/89	0 - 0.5 05/19/90	1 - 1.5 05/19/90
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	R
NP-237	0.600	pCi/g	UJ
PU-238	0.600	pCi/g	U
PU-239/240	0.600	pCi/g	U
RA-226	0.886	pCi/g	R
RA-228	0.673	pCi/g	R
RU-106	1.000	pCi/g	R
SR-90	0.500	pCi/g	R
TC-99	0.900	pCi/g	UJ
TH-228	0.902	pCi/g	-
TH-230	1.680	pCi/g	-
TH-232	0.872	pCi/g	-
TH-TOTAL	7.870	ug/g	-
U-234	1.040	pCi/g	J
U-235/236	0.600	pCi/g	UJ
U-238	1.050	pCi/g	J
U-TOTAL	2.280	mg/kg	R
	0.248	pCi/g	R
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	1.350	pCi/g	R
	0.858	pCi/g	R
	1.000	pCi/g	R
	0.500	pCi/g	-
	0.900	pCi/g	J
	1.010	pCi/g	-
	5.590	pCi/g	-
	1.110	pCi/g	-
	10.000	ug/g	-
	4.640	pCi/g	J
	0.600	pCi/g	J
	7.000	pCi/g	J
	26.400	mg/kg	R
	0.200	pCi/g	R
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.300	pCi/g	R
	0.500	pCi/g	R
	1.000	pCi/g	R
	0.500	pCi/g	-
	0.900	pCi/g	J
	0.600	pCi/g	-
	3.070	pCi/g	-
	0.600	pCi/g	-
	5.000	ug/g	-
	2.640	pCi/g	J
	0.600	pCi/g	J
	2.720	pCi/g	J
	12.900	mg/kg	R

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000595

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1516	1516	1516
SAMPLE NUMBER	055375	055377	055379
SAMPLING DATE	2 - 2.5 05/19/90	3 - 3.5 05/19/90	4 - 4.5 05/19/90
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	R
NP-237	0.600	pCi/g	J
PU-238	0.600	pCi/g	J
PU-239/240	0.600	pCi/g	J
RA-226	0.300	pCi/g	R
RA-228	0.500	pCi/g	R
RU-106	1.000	pCi/g	R°
SR-90	0.500	pCi/g	-
TC-99	0.900	pCi/g	J
TH-228	0.657	pCi/g	-
TH-230	0.794	pCi/g	-
TH-232	0.600	pCi/g	-
TH-TOTAL	5.000	ug/g	-
U-234	1.290	pCi/g	J
U-235/236	0.600	pCi/g	J
U-238	1.410	pCi/g	J
U-TOTAL	8.150	mg/kg	R
	0.200	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.496	pCi/g	J
	0.500	pCi/g	J
	1.000	pCi/g	J
	1.220	pCi/g	J
	0.900	pCi/g	J
	0.600	pCi/g	-
	0.811	pCi/g	J
	0.600	pCi/g	-
	5.000	ug/g	-
	1.240	pCi/g	J
	0.600	pCi/g	J
	1.670	pCi/g	J
	3.440	mg/kg	J
	0.200	pCi/g	R
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.622	pCi/g	R
	0.500	pCi/g	R
	1.000	pCi/g	R
	0.500	pCi/g	-
	0.900	pCi/g	J
	0.600	pCi/g	-
	1.030	pCi/g	J
	0.600	pCi/g	-
	0.600	pCi/g	-
	5.000	ug/g	-
	1.730	pCi/g	J
	0.600	pCi/g	J
	1.930	pCi/g	J
	6.940	mg/kg	R

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000596

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1516	1516	1516
SAMPLE NUMBER	055383	055387	055389
SAMPLING DATE	6 - 6.5 05/19/90	8 - 8.5 05/19/90	9 - 9.5 05/19/90
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	J
NP-237	0.600	pCi/g	J
PU-238	0.600	pCi/g	J
PU-239/240	0.600	pCi/g	J
RA-226	0.862	pCi/g	J
RA-228	0.500	pCi/g	J
RU-106	1.000	pCi/g	J
SR-90	0.500	pCi/g	-
TC-99	0.900	pCi/g	J
TH-228	0.600	pCi/g	-
TH-230	1.370	pCi/g	J
TH-232	0.600	pCi/g	-
TH-TOTAL	5.000	ug/g	-
U-234	2.290	pCi/g	J
U-235/236	0.600	pCi/g	J
U-238	2.840	pCi/g	J
U-TOTAL	9.420	mg/kg	J
	0.200	pCi/g	R
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.487	pCi/g	R
	0.500	pCi/g	R
	1.000	pCi/g	R
	0.500	pCi/g	-
	0.900	pCi/g	J
	0.600	pCi/g	-
	0.662	pCi/g	J
	0.600	pCi/g	-
	5.000	ug/g	-
	1.500	pCi/g	J
	0.600	pCi/g	J
	1.530	pCi/g	J
	7.930	mg/kg	R
	0.200	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.606	pCi/g	J
	0.500	pCi/g	J
	1.000	pCi/g	J
	0.500	pCi/g	-
	0.900	pCi/g	J
	0.600	pCi/g	-
	0.749	pCi/g	J
	0.600	pCi/g	-
	5.000	ug/g	-
	1.540	pCi/g	J
	0.600	pCi/g	J
	1.910	pCi/g	J
	6.550	mg/kg	J

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000597

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1516	1516	1516
SAMPLE NUMBER	055391	055393	055395
SAMPLING DATE	10 - 10.5 05/19/90	11 - 11.5 05/19/90	12 - 12.5 05/19/90
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	R
NP-237	0.600	pCi/g	J
PU-238	0.600	pCi/g	J
PU-239/240	0.600	pCi/g	J
RA-226	0.531	pCi/g	R
RA-228	0.500	pCi/g	R
RU-106	1.000	pCi/g	R
SR-90	0.500	pCi/g	-
TC-99	0.900	pCi/g	J
TH-228	0.600	pCi/g	-
TH-230	0.849	pCi/g	J
TH-232	0.600	pCi/g	-
TH-TOTAL	5.000	ug/g	-
U-234	1.480	pCi/g	J
U-235/236	0.600	pCi/g	J
U-238	1.530	pCi/g	J
U-TOTAL	9.410	mg/kg	R
	0.200	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.405	pCi/g	J
	0.500	pCi/g	-
	1.000	pCi/g	J
	0.500	pCi/g	-
	0.900	pCi/g	J
	0.600	pCi/g	-
	0.600	pCi/g	-
	0.600	pCi/g	-
	5.000	ug/g	-
	1.650	pCi/g	J
	0.600	pCi/g	J
	1.840	pCi/g	J
	5.520	mg/kg	J
	0.200	pCi/g	R
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.300	pCi/g	R
	0.500	pCi/g	R
	1.000	pCi/g	R
	0.500	pCi/g	-
	0.900	pCi/g	J
	0.600	pCi/g	J
	0.958	pCi/g	J
	0.600	pCi/g	J
	4.670	ug/g	J
	1.840	pCi/g	J
	0.600	pCi/g	J
	1.960	pCi/g	J
	9.030	mg/kg	R

F-6-23

000598

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1516	1516	1516
SAMPLE NUMBER	055399	055401	055405
SAMPLING DATE	14 - 14.5 05/19/90	15 - 15.5 05/19/90	17 - 17.5 05/19/90
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	J
NP-237	0.600	pCi/g	J
PU-238	0.600	pCi/g	J
PU-239/240	0.600	pCi/g	J
RA-226	0.514	pCi/g	J
RA-228	0.500	pCi/g	J
RU-106	1.000	pCi/g	J
SR-90	0.500	pCi/g	-
TC-99	0.900	pCi/g	J
TH-228	0.726	pCi/g	J
TH-230	1.230	pCi/g	J
TH-232	0.600	pCi/g	J
TH-TOTAL	4.410	ug/g	J
U-234	2.270	pCi/g	J
U-235/236	0.600	pCi/g	J
U-238	2.600	pCi/g	J
U-TOTAL	6.660	mg/kg	J
	6.600	mg/kg	R
	0.200	pCi/g	R
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.300	pCi/g	R
	0.500	pCi/g	R
	1.000	pCi/g	R
	0.500	pCi/g	-
	0.900	pCi/g	J
	0.743	pCi/g	J
	1.610	pCi/g	J
	0.600	pCi/g	J
	4.750	ug/g	J
	1.630	pCi/g	J
	0.600	pCi/g	J
	1.800	pCi/g	J
	8.600	mg/kg	R
	0.200	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.539	pCi/g	J
	0.500	pCi/g	J
	1.000	pCi/g	J
	0.500	pCi/g	-
	0.900	pCi/g	J
	0.600	pCi/g	J
	0.779	pCi/g	J
	0.600	pCi/g	J
	1.680	ug/g	J
	0.954	pCi/g	J
	0.600	pCi/g	J
	0.848	pCi/g	J
	2.640	mg/kg	J

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0005399

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1516	1516	1517
SAMPLE NUMBER	055407	055409	055413
SAMPLING DATE	18 - 18.5 05/19/90	19 - 19.5 05/19/90	0 - 0.5 05/20/90
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	R
NP-237	0.600	pCi/g	J
PU-238	0.600	pCi/g	J
PU-239/240	0.600	pCi/g	J
RA-226	0.594	pCi/g	R
RA-228	0.500	pCi/g	R
RU-106	1.000	pCi/g	R
SR-90	0.500	pCi/g	J
TC-99	0.900	pCi/g	J
TH-228	0.600	pCi/g	J
TH-230	0.705	pCi/g	J
TH-232	0.600	pCi/g	J
TH-TOTAL	1.760	ug/g	J
U-234	2.300	pCi/g	J
U-235/236	0.600	pCi/g	J
U-238	2.740	pCi/g	J
U-TOTAL	6.330	mg/kg	R
	0.200	pCi/g	R
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.300	pCi/g	R
	0.500	pCi/g	R
	1.000	pCi/g	R
	0.500	pCi/g	-
	0.900	pCi/g	J
	0.600	pCi/g	J
	0.904	pCi/g	J
	0.600	pCi/g	J
	1.940	ug/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	6.760	mg/kg	R
	0.200	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.559	pCi/g	J
	0.500	pCi/g	-
	0.900	pCi/g	J
	0.600	pCi/g	-
	1.110	pCi/g	-
	0.600	pCi/g	-
	5.000	ug/g	-
	1.090	pCi/g	J
	0.600	pCi/g	J
	1.450	pCi/g	J
	2.950	mg/kg	J

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000600

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1517	1517	1517
SAMPLE NUMBER	055416	055419	055422
SAMPLING DATE	1.5 - 2 05/20/90	3 - 3.5 05/20/90	4.5 - 5 05/20/90
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	R
NP-237	0.600	pCi/g	J
PU-238	0.600	pCi/g	J
PU-239/240	0.600	pCi/g	J
RA-226	0.700	pCi/g	R
RA-228	0.610	pCi/g	R
RU-106	1.000	pCi/g	R
SR-90	0.500	pCi/g	J
TC-99	0.900	pCi/g	J
TH-228	0.600	pCi/g	-
TH-230	0.812	pCi/g	-
TH-232	0.600	pCi/g	-
TH-TOTAL	5.000	ug/g	-
U-234	0.984	pCi/g	J
U-235/236	0.600	pCi/g	J
U-238	0.842	pCi/g	J
U-TOTAL	5.830	mg/kg	R

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00601

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TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1517	1517	1517
SAMPLE NUMBER	055425	055427	055429
SAMPLING DATE	6 - 6.5 05/20/90	7 - 7.5 05/20/90	8 - 8.5 05/20/90
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	J
NP-237	0.600	pCi/g	J
PU-238	0.600	pCi/g	J
PU-239/240	0.600	pCi/g	J
RA-226	0.450	pCi/g	J
RA-228	0.500	pCi/g	J
RU-106	1.000	pCi/g	J
SR-90	0.500	pCi/g	-
TC-99	0.900	pCi/g	J
TH-228	0.600	pCi/g	-
TH-230	0.691	pCi/g	-
TH-232	0.600	pCi/g	-
TH-TOTAL	5.000	ug/g	-
U-234	0.600	pCi/g	J
U-235/236	0.600	pCi/g	J
U-238	0.604	pCi/g	J
U-TOTAL	1.810	mg/kg	J
	0.200	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.480	pCi/g	J
	0.500	pCi/g	J
	1.000	pCi/g	J
	0.500	pCi/g	-
	0.900	pCi/g	J
	0.600	pCi/g	-
	0.606	pCi/g	-
	0.600	pCi/g	-
	5.000	ug/g	-
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	1.210	mg/kg	J
	0.200	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.390	pCi/g	J
	0.500	pCi/g	J
	1.000	pCi/g	J
	0.500	pCi/g	-
	0.900	pCi/g	J
	0.600	pCi/g	-
	0.913	pCi/g	-
	0.600	pCi/g	-
	5.000	ug/g	-
	1.430	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	1.170	mg/kg	J

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000602

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FEMP-OJU02-6 FINAL
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TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1517	1517	1517
SAMPLE NUMBER	055431	055433	055437
SAMPLING DATE	9 - 9.5 05/20/90	10 - 10.5 05/20/90	12 - 12.5 05/20/90
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	J
NP-237	0.600	pCi/g	J
PU-238	0.600	pCi/g	J
PU-239/240	0.600	pCi/g	J
RA-226	0.560	pCi/g	J
RA-228	0.500	pCi/g	J
RU-106	1.000	pCi/g	J
SR-90	0.500	pCi/g	-
TC-99	0.900	pCi/g	J
TH-228	0.600	pCi/g	-
TH-230	0.668	pCi/g	-
TH-232	0.600	pCi/g	-
TH-TOTAL	5.000	ug/g	-
U-234	0.600	pCi/g	J
U-235/236	0.600	pCi/g	J
U-238	0.624	pCi/g	J
U-TOTAL	1.850	mg/kg	J
	0.200	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.520	pCi/g	J
	0.500	pCi/g	J
	1.000	pCi/g	J
	0.737	pCi/g	J
	0.900	pCi/g	J
	0.600	pCi/g	-
	0.600	pCi/g	-
	0.600	pCi/g	-
	5.000	ug/g	-
	0.801	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	1.520	mg/kg	J
	0.200	pCi/g	R
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.530	pCi/g	R
	0.500	pCi/g	R
	1.000	pCi/g	R
	0.500	pCi/g	-
	0.900	pCi/g	J
	0.600	pCi/g	-
	2.020	pCi/g	-
	0.600	pCi/g	-
	5.000	ug/g	-
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	5.950	mg/kg	R

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1517	1517	1517
SAMPLE NUMBER	055440	055443	055446
SAMPLING DATE	13.5 - 14 05/20/90	15 - 15.5 05/20/90	16.5 - 17 05/20/90
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pc1/g	J
NP-237	0.600	pc1/g	J
PU-238	0.600	pc1/g	J
PU-239/240	0.600	pc1/g	J
RA-226	0.410	pc1/g	J
RA-228	0.500	pc1/g	J
RU-106	1.000	pc1/g	J
SR-90	0.500	pc1/g	J
TC-99	0.900	pc1/g	J
TH-228	0.600	pc1/g	-
TH-230	0.600	pc1/g	-
TH-232	0.600	pc1/g	-
TH-TOTAL	5.000	ug/g	-
U-234	0.600	pc1/g	J
U-235/236	0.600	pc1/g	J
U-238	0.600	pc1/g	J
U-TOTAL	1.440	mg/kg	J
	RESULTS	UNITS	VQ
	0.200	pc1/g	J
	0.600	pc1/g	J
	0.600	pc1/g	J
	0.600	pc1/g	J
	0.440	pc1/g	J
	0.500	pc1/g	J
	1.000	pc1/g	J
	0.500	pc1/g	-
	0.900	pc1/g	J
	0.600	pc1/g	-
	0.600	pc1/g	-
	0.600	pc1/g	-
	5.000	ug/g	-
	0.600	pc1/g	J
	0.600	pc1/g	J
	0.600	pc1/g	J
	1.780	mg/kg	J
	RESULTS	UNITS	VQ
	0.200	pc1/g	R
	0.600	pc1/g	J
	0.600	pc1/g	J
	0.600	pc1/g	J
	0.460	pc1/g	R
	0.500	pc1/g	R
	1.000	pc1/g	R
	0.500	pc1/g	-
	0.900	pc1/g	J
	1.930	pc1/g	-
	0.600	pc1/g	-
	0.600	pc1/g	-
	5.000	ug/g	-
	0.600	pc1/g	J
	0.600	pc1/g	J
	0.625	pc1/g	J
	5.250	mg/kg	R

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TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1517	1517	1518
SAMPLE NUMBER	055449	055451	055454
SAMPLING DATE	18 - 18.5 05/20/90	19 - 19.5 05/20/90	0 - 0.5 05/22/90
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	J
NP-237	0.600	pCi/g	J
PU-238	0.600	pCi/g	J
PU-239/240	0.600	pCi/g	J
RA-226	0.523	pCi/g	J
RA-228	0.500	pCi/g	J
RU-106	1.000	pCi/g	J
SR-90	0.500	pCi/g	-
TC-99	0.900	pCi/g	J
TH-228	0.600	pCi/g	-
TH-230	0.863	pCi/g	-
TH-232	0.600	pCi/g	-
TH-TOTAL	5.000	ug/g	-
U-234	0.600	pCi/g	J
U-235/236	0.600	pCi/g	J
U-238	0.600	pCi/g	J
U-TOTAL	1.540	mg/kg	J
	0.200	pCi/g	R
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.582	pCi/g	R
	0.500	pCi/g	R
	1.000	pCi/g	R
	0.500	pCi/g	-
	0.900	pCi/g	J
	0.600	pCi/g	-
	0.965	pCi/g	-
	0.600	pCi/g	-
	5.000	ug/g	-
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	5.640	mg/kg	R
	0.200	pCi/g	R
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.300	pCi/g	R
	0.500	pCi/g	R
	1.000	pCi/g	R
	0.500	pCi/g	-
	0.900	pCi/g	J
	1.230	pCi/g	J
	1.630	pCi/g	J
	0.632	pCi/g	J
	5.700	ug/g	J
	1.200	pCi/g	J
	0.600	pCi/g	J
	1.240	pCi/g	J
	6.170	mg/kg	R

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000605

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1518	1518	1518
SAMPLE NUMBER	055456	055458	055460
SAMPLING DATE	1 - 1.5 05/22/90	2 - 2.5 05/22/90	3 - 3.5 05/22/90
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	J
NP-237	0.600	pCi/g	J
PU-238	0.600	pCi/g	J
PU-239/240	0.600	pCi/g	J
RA-226	0.670	pCi/g	J
RA-228	0.600	pCi/g	JD
RU-106	1.100	pCi/g	JD
SR-90	0.500	pCi/g	-
TC-99	0.900	pCi/g	J
TH-228	0.600	pCi/g	J
TH-230	0.692	pCi/g	J
TH-232	0.600	pCi/g	J
TH-TOTAL	1.690	ug/g	J
U-234	0.600	pCi/g	J
U-235/236	0.600	pCi/g	J
U-238	0.600	pCi/g	J
U-TOTAL	1.530	mg/kg	J
	0.200	pCi/g	R
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.461	pCi/g	R
	0.500	pCi/g	R
	1.000	pCi/g	R
	0.500	pCi/g	-
	0.900	pCi/g	C
	0.600	pCi/g	C
	0.845	pCi/g	C
	0.600	pCi/g	C
	2.110	ug/g	J
	0.600	pCi/g	C
	0.600	pCi/g	J
	0.600	pCi/g	C
	4.200	mg/kg	R
	0.200	pCi/g	R
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	R
	0.300	pCi/g	R
	0.500	pCi/g	R
	1.000	pCi/g	R
	0.700	pCi/g	JD
	0.900	pCi/g	J
	0.600	pCi/g	J
	0.606	pCi/g	J
	0.600	pCi/g	J
	1.800	ug/g	J
	1.200	pCi/g	JD
	1.200	pCi/g	JD
	1.200	pCi/g	JD
	5.690	mg/kg	R

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000606

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1518	1518	1518
SAMPLE NUMBER	055462	055464	055466
SAMPLING DATE	4 - 4.5 05/22/90	5 - 5.5 05/22/90	6 - 6.5 05/22/90
RADIOLOGICAL PARAMETERS	RESULTS UNITS VQ	RESULTS UNITS VQ	RESULTS UNITS VQ
CS-137	0.200 pc ⁻¹ /g J	0.200 pc ⁻¹ /g R	0.200 pc ⁻¹ /g R
NP-237	0.600 pc ⁻¹ /g J	0.600 pc ⁻¹ /g J	0.600 pc ⁻¹ /g J
PU-238	0.600 pc ⁻¹ /g J	0.600 pc ⁻¹ /g J	0.600 pc ⁻¹ /g J
PU-239/240	0.600 pc ⁻¹ /g J	0.600 pc ⁻¹ /g J	0.600 pc ⁻¹ /g J
RA-226	0.537 pc ⁻¹ /g J	0.696 pc ⁻¹ /g R	0.808 pc ⁻¹ /g R
RA-228	0.500 pc ⁻¹ /g J	0.500 pc ⁻¹ /g R	0.500 pc ⁻¹ /g R
RU-106	1.000 pc ⁻¹ /g J	1.000 pc ⁻¹ /g R	1.000 pc ⁻¹ /g R
SR-90	0.500 pc ⁻¹ /g J	0.500 pc ⁻¹ /g J	0.600 pc ⁻¹ /g JD
TC-99	0.900 pc ⁻¹ /g J	0.900 pc ⁻¹ /g J	0.900 pc ⁻¹ /g J
TH-228	0.600 pc ⁻¹ /g J	0.600 pc ⁻¹ /g J	0.737 pc ⁻¹ /g J
TH-230	0.787 pc ⁻¹ /g J	1.130 pc ⁻¹ /g J	1.230 pc ⁻¹ /g J
TH-232	0.600 pc ⁻¹ /g J	0.600 pc ⁻¹ /g J	0.623 pc ⁻¹ /g J
TH-TOTAL	2.120 ug/g J	2.780 ug/g J	5.620 ug/g J
U-234	0.600 pc ⁻¹ /g J	0.709 pc ⁻¹ /g J	0.629 pc ⁻¹ /g J
U-235/236	0.600 pc ⁻¹ /g J	0.600 pc ⁻¹ /g J	0.600 pc ⁻¹ /g J
U-238	0.600 pc ⁻¹ /g J	0.879 pc ⁻¹ /g J	0.873 pc ⁻¹ /g J
U-TOTAL	1.750 mg/kg J	5.360 mg/kg R	7.610 mg/kg R

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000607

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1518	1518	1518
SAMPLE NUMBER	055468	055470	055472
SAMPLING DATE	7 - 7.5	8 - 8.5	9 - 9.5
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	R
NP-237	0.600	pCi/g	J
PU-238	0.600	pCi/g	J
PU-239/240	0.600	pCi/g	J
RA-226	0.300	pCi/g	R
RA-228	0.500	pCi/g	R
RU-106	1.000	pCi/g	R
SR-90	0.500	pCi/g	J
TC-99	0.900	pCi/g	J
TH-228	0.642	pCi/g	J
TH-230	1.170	pCi/g	J
TH-232	0.600	pCi/g	J
TH-TOTAL	3.360	ug/g	J
U-234	0.618	pCi/g	J
U-235/236	0.600	pCi/g	J
U-238	0.625	pCi/g	J
U-TOTAL	6.020	mg/kg	R
	0.200	pCi/g	R
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.602	pCi/g	R
	0.500	pCi/g	R
	1.000	pCi/g	R
	0.500	pCi/g	-
	0.900	pCi/g	-
	0.600	pCi/g	J
	0.888	pCi/g	J
	0.600	pCi/g	J
	3.520	ug/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.629	pCi/g	J
	5.560	mg/kg	R
	0.200	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.539	pCi/g	J
	0.500	pCi/g	J
	1.000	pCi/g	J
	0.500	pCi/g	-
	0.900	pCi/g	J
	1.530	pCi/g	J
	0.690	pCi/g	J
	0.600	pCi/g	J
	2.850	ug/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	0.600	pCi/g	J
	1.620	mg/kg	J

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000608

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1518	1518	1518
SAMPLE NUMBER	055474	055476	055478
SAMPLING DATE	10 - 10.5 05/22/90	11 - 11.5 05/22/90	12 - 12.5 05/22/90
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	UJ
NP-237	0.600	pCi/g	U
PU-238	0.600	pCi/g	UJ
PU-239/240	0.600	pCi/g	UJ
RA-226	0.430	pCi/g	J
RA-228	0.500	pCi/g	UJ
RU-106	1.000	pCi/g	UJ
SR-90	0.500	pCi/g	UJ
TC-99	0.900	pCi/g	UJ
TH-228	0.600	pCi/g	U
TH-230	0.863	pCi/g	J
TH-232	0.600	pCi/g	U
TH-TOTAL	2.570	ug/g	-
U-234	0.694	pCi/g	R
U-235/236	0.600	pCi/g	R
U-238	0.739	pCi/g	R
U-TOTAL	1.800	mg/kg	UJ
	0.200	pCi/g	R
	0.600	pCi/g	U
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	0.300	pCi/g	R
	0.500	pCi/g	R
	1.000	pCi/g	R
	0.500	pCi/g	R
	0.900	pCi/g	UJ
	5.920	pCi/g	-
	3.010	pCi/g	J
	5.590	pCi/g	-
	50.500	ug/g	-
	0.610	pCi/g	R
	0.930	pCi/g	R
	0.915	pCi/g	R
	5.330	mg/kg	R
	2.400	ug/g	U
	0.802	pCi/g	R
	0.600	pCi/g	R
	0.665	pCi/g	R
	2.800	mg/kg	UJ

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1518	1518	1518
SAMPLE NUMBER	055481	055483	055485
SAMPLING DATE	13.5 - 14 05/22/90	14.5 - 15 05/22/90	15.5 - 16 05/22/90
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	R
NP-237	0.600	pCi/g	U
PU-238	0.600	pCi/g	U
PU-239/240	0.600	pCi/g	U
RA-226	0.520	pCi/g	R
RA-228	0.500	pCi/g	R
RU-106	1.000	pCi/g	R
SR-90	0.500	pCi/g	UJ
TC-99	0.900	pCi/g	UJ
TH-228	0.600	pCi/g	U
TH-230	0.600	pCi/g	U
TH-232	0.600	pCi/g	U
TH-TOTAL	1.260	ug/g	-
U-234	0.898	pCi/g	R
U-235/236	0.600	pCi/g	R
U-238	0.768	pCi/g	R
U-TOTAL	4.570	mg/kg	R
	0.200	pCi/g	UJ
	0.600	pCi/g	U
	0.600	pCi/g	U
	0.600	pCi/g	U
	0.500	pCi/g	UJ
	1.200	pCi/g	UJ
	2.100	pCi/g	UJ
	0.500	pCi/g	UJ
	0.900	pCi/g	UJ
	0.600	pCi/g	U
	0.968	pCi/g	J
	0.600	pCi/g	U
	1.700	ug/g	U
	1.080	pCi/g	R
	0.772	pCi/g	R
	0.703	pCi/g	R
	12.000	mg/kg	UJ
	0.200	pCi/g	R
	0.600	pCi/g	U
	0.600	pCi/g	U
	0.300	pCi/g	R
	0.500	pCi/g	R
	1.000	pCi/g	R
	0.500	pCi/g	UJ
	0.900	pCi/g	UJ
	0.600	pCi/g	U
	1.060	pCi/g	J
	0.600	pCi/g	U
	2.610	ug/g	-
	2.910	pCi/g	R
	0.600	pCi/g	R
	0.600	pCi/g	R
	4.260	mg/kg	R

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000610

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1518	1518	1518
SAMPLE NUMBER	055487	055489	055491
SAMPLING DATE	16.5 - 17 05/22/90	17.5 - 18 05/22/90	18.5 - 19 05/22/90
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	UJ
NP-237	0.600	pCi/g	U
PU-238	0.600	pCi/g	U
PU-239/240	0.600	pCi/g	U
RA-226	0.510	pCi/g	J
RA-228	0.500	pCi/g	UJ
RU-106	1.000	pCi/g	UJ
SR-90	0.500	pCi/g	UJ
TC-99	0.900	pCi/g	UJ
TH-228	0.600	pCi/g	U
TH-230	1.020	pCi/g	J
TH-232	0.600	pCi/g	U
TH-TOTAL	1.700	ug/g	U
U-234	1.980	pCi/g	R
U-235/236	0.600	pCi/g	R
U-238	0.602	pCi/g	R
U-TOTAL	2.400	mg/kg	UJ
	0.200	pCi/g	R
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	0.560	pCi/g	R
	0.500	pCi/g	R
	1.000	pCi/g	R
	0.500	pCi/g	UJ
	0.900	pCi/g	UJ
	0.740	pCi/g	J
	0.921	pCi/g	J
	0.600	pCi/g	U
	3.950	ug/g	-
	0.600	pCi/g	R
	0.600	pCi/g	R
	0.669	pCi/g	R
	5.500	mg/kg	
	0.200	pCi/g	UJ
	0.600	pCi/g	U
	0.600	pCi/g	U
	0.600	pCi/g	U
	0.430	pCi/g	J
	0.500	pCi/g	UJ
	1.000	pCi/g	UJ
	0.500	pCi/g	UJ
	0.900	pCi/g	U
	0.740	pCi/g	J
	0.921	pCi/g	J
	0.600	pCi/g	U
	3.950	ug/g	-
	0.600	pCi/g	R
	0.600	pCi/g	R
	0.740	pCi/g	R
	1.680	mg/kg	J

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000611

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1518	BORING NUMBER	2046	BORING NUMBER	2046				
SAMPLE NUMBER	055493	SAMPLE NUMBER	008950	SAMPLE NUMBER	008956				
SAMPLING DATE	19.5 - 20 05/22/90	SAMPLING DATE	30 - 31.5 12/14/88	SAMPLING DATE	61 - 62.5 12/15/88				
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	R	0.200	pCi/g	R			NA
NP-237	0.600	pCi/g	U	0.600	pCi/g	U			NA
PU-238	0.600	pCi/g	UJ	0.600	pCi/g	UJ			NA
PU-239/240	0.600	pCi/g	UJ	0.600	pCi/g	UJ			NA
RA-226	0.600	pCi/g	R	0.500	pCi/g	R			NA
RA-228	0.500	pCi/g	R	0.500	pCi/g	R			NA
RU-106	1.000	pCi/g	R	1.000	pCi/g	R			NA
SR-90	0.500	pCi/g	R	0.700	pCi/g	-			NA
TC-99	0.900	pCi/g	UJ	0.900	pCi/g	U			NA
TH-228	0.600	pCi/g	U	0.600	pCi/g	U			NA
TH-230	1.130	pCi/g	J	0.900	pCi/g	-			NA
TH-232	0.600	pCi/g	U	0.600	pCi/g	U			NA
TH-TOTAL	2.630	ug/g	-	NA					NA
U-234	0.799	pCi/g	R	0.600	pCi/g	U			NA
U-235/236	0.600	pCi/g	R	0.600	pCi/g	U			NA
U-238	0.600	pCi/g	R	0.600	pCi/g	U			NA
U-TOTAL	5.800	mg/kg	R	3.000	mg/kg	R	16.000	mg/kg	-

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000612

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	2065	2065	2385
SAMPLE NUMBER	007184	007191	032622
SAMPLING DATE	13.5 - 15 09/29/87	35 - 36.5 09/29/87	4.5 - 6 04/20/90
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	UJ
NP-237	0.600	pCi/g	UJ
PU-238	0.600	pCi/g	UJ
PU-239/240	0.600	pCi/g	UJ
RA-226	0.300	pCi/g	UJ
RA-228	0.600	pCi/g	UJ
RU-106	1.000	pCi/g	UJ
SR-90	0.500	pCi/g	UJ
TC-99	2.600	pCi/g	UJ
TH-228	1.000	pCi/g	J
TH-230	1.600	pCi/g	J
TH-232	0.700	pCi/g	J
TH-TOTAL	NA		
U-234	1.200	pCi/g	J
U-235/236	0.600	pCi/g	UJ
U-238	1.300	pCi/g	J
U-TOTAL	NA		

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000613

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	2385	3046	3385
SAMPLE NUMBER	032639	032709	032725
SAMPLING DATE	45 - 46.5 04/21/90	100 - 101.5 05/30/90	80 - 81.5 06/13/90
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	UJ
NP-237	0.600	pCi/g	UJ
PU-238	0.600	pCi/g	UJ
PU-239/240	0.600	pCi/g	UJ
RA-226	0.650	pCi/g	J
RA-228	0.500	pCi/g	UJ
RU-106	1.000	pCi/g	UJ
SR-90	0.500	pCi/g	UJ
TC-99	0.900	pCi/g	UJ
TH-228	0.600	pCi/g	UJ
TH-230	0.600	pCi/g	UJ
TH-232	0.600	pCi/g	UJ
TH-TOTAL	1.100	ug/g	J
U-234	0.600	pCi/g	J
U-235/236	0.600	pCi/g	UJ
U-238	0.600	pCi/g	J
U-TOTAL	4.630	mg/kg	J
	0.200	pCi/g	UJ
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	0.492	pCi/g	J
	0.500	pCi/g	UJ
	1.000	pCi/g	UJ
	0.500	pCi/g	R
	1.100	pCi/g	D
	0.742	pCi/g	J
	0.969	pCi/g	J
	0.600	pCi/g	UJ
	3.930	ug/g	J
	4.330	pCi/g	J
	0.600	pCi/g	UJ
	4.230	pCi/g	J
	12.700	mg/kg	J
	0.200	pCi/g	R
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	1.700	pCi/g	R
	1.000	pCi/g	R
	1.000	pCi/g	R
	0.500	pCi/g	UJ
	0.900	pCi/g	UJ
	0.600	pCi/g	UJ
	0.604	pCi/g	-
	0.600	pCi/g	UJ
	4.150	ug/g	-
	0.736	pCi/g	J
	0.600	pCi/g	UJ
	1.050	pCi/g	J
	5.800	mg/kg	R

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000614

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	4014			4014			SPA-0		
SAMPLE NUMBER	010393			010408			039170		
SAMPLING DATE	65 - 66.5 11/02/88			140 - 141.5 11/08/88			07/29/92		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	UJ	0.200	pCi/g	UJ	0.200	pCi/g	U
GROSS ALPHA	NA			NA			832.000	pCi/g	NV
GROSS BETA	NA			NA			23.200	pCi/g	NV
NP-237	0.600	pCi/g	U	0.600	pCi/g	U	NA		
PU-238	0.600	pCi/g	U	0.600	pCi/g	U	0.600	pCi/g	U
PU-239/240	0.600	pCi/g	U	0.600	pCi/g	U	0.600	pCi/g	U
RA-226	0.400	pCi/g	J	0.300	pCi/g	J	1.250	pCi/g	-
RA-228	0.500	pCi/g	UJ	0.500	pCi/g	UJ	1.220	pCi/g	-
RU-106	1.000	pCi/g	UJ	1.000	pCi/g	UJ	1.000	pCi/g	UJ
SR-90	0.500	pCi/g	U	0.500	pCi/g	U	0.500	pCi/g	U
TC-99	0.900	pCi/g	U	0.900	pCi/g	U	0.900	pCi/g	U
TH-228	0.600	pCi/g	UJ	0.600	pCi/g	UJ	1.230	pCi/g	J
TH-230	0.700	pCi/g	J	0.700	pCi/g	J	1.740	pCi/g	J
TH-232	0.600	pCi/g	UJ	0.600	pCi/g	UJ	1.070	pCi/g	J
TH-TOTAL	NA			NA			9.640	pCi/g	-
U-234	0.600	pCi/g	U	0.600	pCi/g	U	2.420	pCi/g	-
U-235/236	0.600	pCi/g	U	0.600	pCi/g	U	0.600	pCi/g	U
U-238	0.600	pCi/g	U	0.600	pCi/g	U	2.460	pCi/g	-
U-TOTAL	1.000	mg/kg	J	1.000	mg/kg	UJ	18.100	mg/kg	-

F640

000615

TABLE F-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	SPA-10 039171 0 - 10	RESULTS	UNITS	VQ
SAMPLING DATE	07/29/92			
RADIOLOGICAL PARAMETERS				
CS-137	0.200	pCi/g	U	
GROSS ALPHA	11.500	pCi/g	NV	
GROSS BETA	20.100	pCi/g	NV	
PU-238	0.600	pCi/g	U	
PU-239/240	0.600	pCi/g	U	
RA-226	0.870	pCi/g	-	
RA-228	0.640	pCi/g	-	
RU-106	1.000	pCi/g	U	
SR-90	0.500	pCi/g	UJ	
TC-99	0.900	pCi/g	U	
TH-228	0.960	pCi/g	J	
TH-230	1.140	pCi/g	J	
TH-232	0.640	pCi/g	J	
TH-TOTAL	5.750	ug/g	J	
U-234	1.000	pCi/g	-	
U-235/236	0.600	pCi/g	U	
U-238	0.950	pCi/g	-	
U-TOTAL	3.030	mg/kg	-	

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000616

TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1456	1459	1462
SAMPLE NUMBER	055906	055919	055932
SAMPLING DATE	3.75-3.75 11/05/89	5-5 11/06/89	4-4 11/07/89
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Inorganics</u>			
Aluminum	7820.000	mg/kg D -	7950.000
Antimony	6.600	mg/kg D R	5.800
Arsenic	8.100	mg/kg D -	4.600
Barium	76.900	mg/kg D -	84.500
Beryllium	1.500	mg/kg D -	1.400
Cadmium	4.400	mg/kg D -	4.100
Calcium	83300.000	mg/kg D -	78600.000
Chromium	24.900	mg/kg D -	23.800
Cobalt	19.100	mg/kg D -	11.000
Copper	21.700	mg/kg D -	24.300
Cyanide	0.280	mg/kg D -	0.270
Iron	18200.000	mg/kg D -	15900.000
Lead	19.200	mg/kg D -	34.000
Magnesium	20600.000	mg/kg D -	24600.000
Manganese	572.000	mg/kg D -	671.000
Mercury	0.230	mg/kg D -	0.250
Molybdenum	2.200	mg/kg D U	1.900
Nickel	39.500	mg/kg D -	29.500
Potassium	761.000	mg/kg D -	733.000
Selenium	0.360	mg/kg D R	0.320
Silver	2.200	mg/kg D -	1.900
Sodium	144.000	mg/kg D -	227.000
Thallium	0.200	mg/kg D J	0.160
Vanadium	24.800	mg/kg D -	21.400
Zinc	50.400	mg/kg D J	65.100
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	6.000	ug/kg D UJ	5.000
1,1,2,2-Tetrachloroethane	6.000	ug/kg D UJ	5.000
1,1,2-Trichloroethane	6.000	ug/kg D UJ	5.000
1,1-Dichloroethane	6.000	ug/kg D U	5.000
1,1-Dichloroethene	6.000	ug/kg D UU	5.000
1,2-Dichloroethane	6.000	ug/kg D UU	5.000
1,2-Dichloroethene	6.000	ug/kg D UU	5.000
1,2-Dichloropropane	6.000	ug/kg D UU	5.000
2-Butanone	11.000	ug/kg D UJ	11.000
2-Hexanone	11.000	ug/kg D UJ	11.000
4-Methyl-2-pentanone	11.000	ug/kg D UJ	11.000
Acetone	11.000	ug/kg D UJ	11.000
Benzene	6.000	ug/kg D UJ	5.000
Bromodichloromethane	6.000	ug/kg D UJ	5.000

TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1456	1459	1462			
SAMPLE NUMBER	055906	055919	055932			
SAMPLING DATE	3.75-3.75 11/05/89	5-5 11/06/89	4-4 11/07/89			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromoform	6.000	ug/kg D UJ	5.000	ug/kg D UJ	6.000	ug/kg D UJ
Bromomethane	11.000	ug/kg D UJ	11.000	ug/kg D UJ	12.000	ug/kg D UJ
Carbon Tetrachloride	6.000	ug/kg D UJ	5.000	ug/kg D UJ	6.000	ug/kg D UJ
Carbon disulfide	6.000	ug/kg D UJ	5.000	ug/kg D UJ	6.000	ug/kg D UJ
Chlorobenzene	6.000	ug/kg D UJ	5.000	ug/kg D UJ	6.000	ug/kg D UJ
Chloroethane	11.000	ug/kg D U	11.000	ug/kg D UJ	12.000	ug/kg D U
Chloroform	3.000	ug/kg D J	5.000	ug/kg D UJ	7.000	ug/kg D -
Chloromethane	11.000	ug/kg D U	11.000	ug/kg D UJ	12.000	ug/kg D UJ
Dibromochloromethane	6.000	ug/kg D UJ	5.000	ug/kg D UJ	6.000	ug/kg D UJ
Ethylbenzene	6.000	ug/kg D UJ	5.000	ug/kg D UJ	6.000	ug/kg D UJ
Methylene chloride	21.000	ug/kg D U	18.000	ug/kg D UJ	6.000	ug/kg D -
Styrene	6.000	ug/kg D UJ	5.000	ug/kg D UJ	6.000	ug/kg D UJ
Tetrachloroethene	6.000	ug/kg D UJ	5.000	ug/kg D UJ	6.000	ug/kg D UJ
Toluene	6.000	ug/kg D UJ	5.000	ug/kg D UJ	6.000	ug/kg D UJ
Trichloroethene	6.000	ug/kg D UJ	5.000	ug/kg D UJ	6.000	ug/kg D UJ
Vinyl Acetate	11.000	ug/kg D UJ	11.000	ug/kg D UJ	12.000	ug/kg D UJ
Vinyl chloride	11.000	ug/kg D U	11.000	ug/kg D UJ	12.000	ug/kg D U
Xylenes, Total	6.000	ug/kg D UJ	5.000	ug/kg D UJ	6.000	ug/kg D UJ
cis-1,3-Dichloropropene	6.000	ug/kg D UJ	5.000	ug/kg D UJ	6.000	ug/kg D UJ
trans-1,3-Dichloropropene	6.000	ug/kg D UJ	5.000	ug/kg D UJ	6.000	ug/kg D UJ
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
1,2-Dichlorobenzene	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
1,3-Dichlorobenzene	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
1,4-Dichlorobenzene	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
2,4,5-Trichlorophenol	1800.000	ug/kg D U	1700.000	ug/kg D U	1800.000	ug/kg D U
2,4,6-Trichlorophenol	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
2,4-Dichlorophenol	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
2,4-Dimethylphenol	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
2,4-Dinitrophenol	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
2,4-Dinitrotoluene	1800.000	ug/kg D U	1700.000	ug/kg D UJ	1800.000	ug/kg D U
2,6-Dinitrotoluene	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
2-Chloronaphthalene	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
2-Chlorophenol	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
2-Methylnaphthalene	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
2-Methylphenol	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
2-Nitroaniline	1800.000	ug/kg D U	1700.000	ug/kg D U	1800.000	ug/kg D U
2-Nitrophenol	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
3,3'-Dichlorobenzidine	740.000	ug/kg D UJ	710.000	ug/kg D UJ	750.000	ug/kg D UJ
3-Nitroaniline	1800.000	ug/kg D U	1700.000	ug/kg D U	1800.000	ug/kg D U

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TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1456	1459	1462			
SAMPLE NUMBER	055906	055919	055932			
	3.75-3.75	5-5	4-4			
SAMPLING DATE	11/05/89	11/06/89	11/07/89			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
4,6-Dinitro-2-methylphenol	1800.000	ug/kg D U	1700.000	ug/kg D U	1800.000	ug/kg D U
4-Bromophenyl phenyl ether	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
4-Chloro-3-methylphenol	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
4-Chlorophenylphenyl ether	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
4-Methylphenol	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
4-Nitroaniline	1800.000	ug/kg D UJ	1700.000	ug/kg D UJ	1800.000	ug/kg D UJ
4-Nitrophenol	1800.000	ug/kg D U	1700.000	ug/kg D U	1800.000	ug/kg D U
Acenaphthene	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
Acenaphthylene	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
Anthracene	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
Benzo(a)anthracene	370.000	ug/kg D U	170.000	ug/kg D J	130.000	ug/kg D J
Benzo(a)pyrene	370.000	ug/kg D U	230.000	ug/kg D J	380.000	ug/kg D U
Benzo(b)fluoranthene	370.000	ug/kg D U	290.000	ug/kg D J	140.000	ug/kg D J
Benzo(g,h,i)perylene	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
Benzo(k)fluoranthene	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
Benzoic acid	1800.000	ug/kg D U	1700.000	ug/kg D U	1800.000	ug/kg D U
Benzyl alcohol	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
Butyl benzyl phthalate	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
Chrysene	370.000	ug/kg D U	170.000	ug/kg D J	150.000	ug/kg D J
Di-n-butyl phthalate	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
Di-n-octyl phthalate	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
Dibenzo(a,h)anthracene	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
Dibenzo furan	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
Diethyl phthalate	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
Dimethyl phthalate	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
Fluoranthene	39.000	ug/kg D J	300.000	ug/kg D J	300.000	ug/kg D J
Fluorene	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
Hexachlorobenzene	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
Hexachlorobutadiene	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
Hexachlorocyclopentadiene	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
Hexachloroethane	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
Indeno(1,2,3-cd)pyrene	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
Isophorone	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
Methyl parathion	50.000	ug/kg D U	50.000	ug/kg D U	59.000	ug/kg C U
N-Nitroso-di-n-propylamine	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
N-Nitrosodiphenylamine	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
Naphthalene	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
Nitrobenzene	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
Parathion	50.000	ug/kg D U	50.000	ug/kg D U	59.000	ug/kg C U
Pentachlorophenol	1800.000	ug/kg D U	1700.000	ug/kg D U	1800.000	ug/kg D U
Phenanthrene	370.000	ug/kg D U	110.000	ug/kg D J	240.000	ug/kg D J
Phenol	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U

TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1456	1459	1462			
SAMPLE NUMBER	055906	055919	055932			
SAMPLING DATE	3.75-3.75 11/05/89	5-5 11/06/89	4-4 11/07/89			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Pyrene	43.000	ug/kg D J	270.000	ug/kg D J	400.000	ug/kg D -
Sulfotep	50.000	ug/kg D UJ	50.000	ug/kg D UJ	59.000	ug/kg C U
bis(2-Chloroethoxy)methane	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
bis(2-Chloroethyl)ether	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
bis(2-Chloroisopropyl) ether	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
bis(2-Ethylhexyl) phthalate	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
p-Chloroaniline	370.000	ug/kg D U	360.000	ug/kg D U	380.000	ug/kg D U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	18.000	ug/kg D UJ	86.000	ug/kg D UJ	180.000	ug/kg D U
4,4'-DDE	18.000	ug/kg D UJ	86.000	ug/kg D UJ	180.000	ug/kg D U
4,4'-DDT	18.000	ug/kg D UJ	86.000	ug/kg D UJ	180.000	ug/kg D U
Aldrin	9.000	ug/kg D UJ	43.000	ug/kg D UJ	92.000	ug/kg D U
Aroclor-1016	90.000	ug/kg D UJ	430.000	ug/kg D UJ	920.000	ug/kg D U
Aroclor-1221	90.000	ug/kg D UJ	430.000	ug/kg D UJ	920.000	ug/kg D U
Aroclor-1232	90.000	ug/kg D UJ	430.000	ug/kg D UJ	920.000	ug/kg D U
Aroclor-1242	90.000	ug/kg D UJ	430.000	ug/kg D UJ	920.000	ug/kg D U
Aroclor-1248	90.000	ug/kg D UJ	430.000	ug/kg D UJ	920.000	ug/kg D U
Aroclor-1254	130.000	ug/kg D J	1100.000	ug/kg D J	690.000	ug/kg D J
Aroclor-1260	150.000	ug/kg D UJ	860.000	ug/kg D UJ	1800.000	ug/kg D U
Dieldrin	18.000	ug/kg D UJ	86.000	ug/kg D UJ	180.000	ug/kg D U
Dimethoate	50.000	ug/kg D U	50.000	ug/kg D U	59.000	ug/kg C U
Disulfoton	50.000	ug/kg D U	50.000	ug/kg D U	59.000	ug/kg C U
Endosulfan II	18.000	ug/kg D UJ	86.000	ug/kg D UJ	180.000	ug/kg D U
Endosulfan sulfate	18.000	ug/kg D UJ	86.000	ug/kg D UJ	180.000	ug/kg D U
Endosulfan-I	9.000	ug/kg D UJ	43.000	ug/kg D UJ	92.000	ug/kg D U
Endrin	18.000	ug/kg D UJ	86.000	ug/kg D UJ	180.000	ug/kg D U
Endrin ketone	18.000	ug/kg D UJ	86.000	ug/kg D UJ	180.000	ug/kg D U
Famphur	100.000	ug/kg D U	100.000	ug/kg D U	118.000	ug/kg C U
Heptachlor	9.000	ug/kg D UJ	43.000	ug/kg D UJ	92.000	ug/kg D U
Heptachlor epoxide	9.000	ug/kg D UJ	43.000	ug/kg D UJ	92.000	ug/kg D U
Methoxychlor	90.000	ug/kg D UJ	430.000	ug/kg D UJ	920.000	ug/kg D U
Phorate	50.000	ug/kg D U	50.000	ug/kg D U	59.000	ug/kg C U
Thionazin.	50.000	ug/kg D U	50.000	ug/kg D U	59.000	ug/kg C U
Toxaphene	180.000	ug/kg D UJ	860.000	ug/kg D UJ	1800.000	ug/kg D U
alpha-BHC	9.000	ug/kg D UJ	43.000	ug/kg D UJ	92.000	ug/kg D U
alpha-Chlordane	90.000	ug/kg D UJ	430.000	ug/kg D UJ	920.000	ug/kg D U
beta-BHC	9.000	ug/kg D UJ	43.000	ug/kg D UJ	92.000	ug/kg D U
delta-BHC	9.000	ug/kg D UJ	43.000	ug/kg D UJ	92.000	ug/kg D U
gamma-BHC (Lindane)	9.000	ug/kg D UJ	43.000	ug/kg D UJ	92.000	ug/kg D U
gamma-Chlordane	90.000	ug/kg D UJ	430.000	ug/kg D UJ	920.000	ug/kg D U

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TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1465	1468	1471			
SAMPLE NUMBER	055945	055959	055972			
SAMPLING DATE	3.5-3.5 11/08/89	2.5-2.5 11/14/89	4-4 11/16/89			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Inorganics</u>						
Aluminum	7780.000	mg/kg D -	8660.000	mg/kg C -	13200.000	mg/kg C -
Antimony	6.100	mg/kg D R	5.100	mg/kg C R	5.300	mg/kg C R
Arsenic	5.800	mg/kg D -	6.300	mg/kg C -	7.000	mg/kg C -
Barium	198.000	mg/kg D -	79.500	mg/kg C -	103.000	mg/kg C -
Beryllium	1.300	mg/kg D -	1.600	mg/kg C -	1.200	mg/kg C U
Cadmium	4.500	mg/kg D -	3.000	mg/kg C -	3.100	mg/kg C -
Calcium	102000.000	mg/kg D -	126000.000	mg/kg C -	12100.000	mg/kg C -
Chromium	25.300	mg/kg D -	21.300	mg/kg C -	18.900	mg/kg C -
Cobalt	14.900	mg/kg D -	11.300	mg/kg C -	12.700	mg/kg C -
Copper	16.200	mg/kg D -	9.700	mg/kg C -	17.000	mg/kg C -
Cyanide	0.300	mg/kg D U	0.300	mg/kg C U	0.290	mg/kg C U
Iron	20700.000	mg/kg D -	17900.000	mg/kg C -	25900.000	mg/kg C -
Lead	20.900	mg/kg D -	21.000	mg/kg C -	15.000	mg/kg C -
Magnesium	24800.000	mg/kg D -	12200.000	mg/kg C -	6000.000	mg/kg C -
Manganese	743.000	mg/kg D -	823.000	mg/kg C -	323.000	mg/kg C -
Mercury	0.120	mg/kg D U	0.120	mg/kg C U	0.100	mg/kg C U
Molybdenum	2.000	mg/kg D U	1.700	mg/kg C U	1.800	mg/kg C U
Nickel	38.000	mg/kg D -	26.900	mg/kg C -	36.400	mg/kg C -
Potassium	863.000	mg/kg D -	548.000	mg/kg C -	866.000	mg/kg C -
Selenium	0.420	mg/kg D R	0.430	mg/kg C R	0.350	mg/kg C R
Silver	2.000	mg/kg D U	1.700	mg/kg C U	1.800	mg/kg C -
Sodium	187.000	mg/kg D -	235.000	mg/kg C -	63.300	mg/kg C -
Thallium	0.210	mg/kg D U	0.190	mg/kg C U	0.190	mg/kg C -
Vanadium	22.800	mg/kg D -	23.300	mg/kg C -	18.100	mg/kg C -
Zinc	56.600	mg/kg D J	41.000	mg/kg C -	66.300	mg/kg C -
<u>Volatile Organics</u>						
1,1,1-Trichloroethane	6.000	ug/kg D UJ	6.000	ug/kg C U	6.000	ug/kg C U
1,1,2,2-Tetrachloroethane	6.000	ug/kg D U	6.000	ug/kg C U	6.000	ug/kg C U
1,1,2-Trichloroethane	6.000	ug/kg D U	6.000	ug/kg C U	6.000	ug/kg C U
1,1-Dichloroethane	6.000	ug/kg D U	6.000	ug/kg C U	6.000	ug/kg C U
1,1-Dichloroethene	6.000	ug/kg D U	6.000	ug/kg C U	6.000	ug/kg C U
1,2-Dichloroethane	6.000	ug/kg D U	6.000	ug/kg C U	6.000	ug/kg C U
1,2-Dichloroethene	6.000	ug/kg D UJ	6.000	ug/kg C U	6.000	ug/kg C U
1,2-Dichloropropane	6.000	ug/kg D U	6.000	ug/kg C U	6.000	ug/kg C U
2-Butanone	12.000	ug/kg D UJ	12.000	ug/kg C U	42.000	ug/kg C -
2-Hexanone	12.000	ug/kg D UJ	12.000	ug/kg C U	12.000	ug/kg C U
4-Methyl-2-pentanone	12.000	ug/kg D UJ	12.000	ug/kg C U	12.000	ug/kg C U
Acetone	12.000	ug/kg D UJ	12.000	ug/kg C U	19.000	ug/kg C U
Benzene	6.000	ug/kg D U	6.000	ug/kg C U	6.000	ug/kg C U
Bromodichloromethane	6.000	ug/kg D UJ	6.000	ug/kg C U	6.000	ug/kg C U

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TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1465				1468				1471			
SAMPLE NUMBER	055945				055959				055972			
SAMPLING DATE	3.5-3.5 11/08/89				2.5-2.5 11/14/89				4-4 11/16/89			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
Bromoform	6.000	ug/kg	D	UJ	6.000	ug/kg	C	U	6.000	ug/kg	C	U
Bromomethane	12.000	ug/kg	D	R	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Carbon Tetrachloride	6.000	ug/kg	D	U	6.000	ug/kg	C	U	6.000	ug/kg	C	U
Carbon disulfide	6.000	ug/kg	D	U	6.000	ug/kg	C	U	6.000	ug/kg	C	U
Chlorobenzene	6.000	ug/kg	D	U	6.000	ug/kg	C	U	6.000	ug/kg	C	U
Chloroethane	12.000	ug/kg	D	UJ	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloroform	6.000	ug/kg	D	U	6.000	ug/kg	C	U	6.000	ug/kg	C	U
Chloromethane	12.000	ug/kg	D	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Dibromochloromethane	6.000	ug/kg	D	U	6.000	ug/kg	C	U	6.000	ug/kg	C	U
Ethylbenzene	6.000	ug/kg	D	U	6.000	ug/kg	C	U	6.000	ug/kg	C	U
Methylene chloride	6.000	ug/kg	D	UJ	2.000	ug/kg	C	J	57.000	ug/kg	C	-
Styrene	6.000	ug/kg	D	U	6.000	ug/kg	C	U	6.000	ug/kg	C	U
Tetrachloroethene	6.000	ug/kg	D	U	6.000	ug/kg	C	U	6.000	ug/kg	C	U
Toluene	6.000	ug/kg	D	U	6.000	ug/kg	C	U	6.000	ug/kg	C	U
Trichloroethene	6.000	ug/kg	D	U	6.000	ug/kg	C	U	6.000	ug/kg	C	U
Vinyl Acetate	12.000	ug/kg	D	UJ	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Vinyl chloride	12.000	ug/kg	D	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Xylenes, Total	6.000	ug/kg	D	U	6.000	ug/kg	C	U	6.000	ug/kg	C	U
cis-1,3-Dichloropropene	6.000	ug/kg	D	U	6.000	ug/kg	C	U	6.000	ug/kg	C	U
trans-1,3-Dichloropropene	6.000	ug/kg	D	UJ	6.000	ug/kg	C	U	6.000	ug/kg	C	U
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	400.000	ug/kg	D	U	380.000	ug/kg	C	U	380.000	ug/kg	C	U
1,2-Dichlorobenzene	400.000	ug/kg	D	U	380.000	ug/kg	C	U	380.000	ug/kg	C	U
1,3-Dichlorobenzene	400.000	ug/kg	D	U	380.000	ug/kg	C	U	380.000	ug/kg	C	U
1,4-Dichlorobenzene	400.000	ug/kg	D	U	380.000	ug/kg	C	U	380.000	ug/kg	C	U
2,4,5-Trichlorophenol	1900.000	ug/kg	D	U	1800.000	ug/kg	C	U	1900.000	ug/kg	C	U
2,4,6-Trichlorophenol	400.000	ug/kg	D	U	380.000	ug/kg	C	U	380.000	ug/kg	C	U
2,4-Dichlorophenol	400.000	ug/kg	D	U	380.000	ug/kg	C	U	380.000	ug/kg	C	U
2,4-Dimethylphenol	400.000	ug/kg	D	U	380.000	ug/kg	C	U	380.000	ug/kg	C	U
2,4-Dinitrophenol	1900.000	ug/kg	D	U	1800.000	ug/kg	C	U	1900.000	ug/kg	C	U
2,4-Dinitrotoluene	400.000	ug/kg	D	U	380.000	ug/kg	C	U	380.000	ug/kg	C	U
2,6-Dinitrotoluene	400.000	ug/kg	D	U	380.000	ug/kg	C	U	380.000	ug/kg	C	U
2-Chloronaphthalene	400.000	ug/kg	D	U	380.000	ug/kg	C	U	380.000	ug/kg	C	U
2-Chlorophenol	400.000	ug/kg	D	U	380.000	ug/kg	C	U	380.000	ug/kg	C	U
2-Methylnaphthalene	400.000	ug/kg	D	U	380.000	ug/kg	C	U	380.000	ug/kg	C	U
2-Methylphenol	400.000	ug/kg	D	U	380.000	ug/kg	C	U	380.000	ug/kg	C	U
2-Nitroaniline	1900.000	ug/kg	D	U	1800.000	ug/kg	C	U	1900.000	ug/kg	C	U
2-Nitrophenol	400.000	ug/kg	D	U	380.000	ug/kg	C	U	380.000	ug/kg	C	U
3,3'-Dichlorobenzidine	800.000	ug/kg	D	UJ	760.000	ug/kg	C	U	770.000	ug/kg	C	U
3-Nitroaniline	1900.000	ug/kg	D	U	1800.000	ug/kg	C	U	1900.000	ug/kg	C	U

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TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1465	1468	1471			
SAMPLE NUMBER	055945	055959	055972			
SAMPLING DATE	3.5-3.5 11/08/89	2.5-2.5 11/14/89	4-4 11/16/89			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
4,6-Dinitro-2-methylphenol	1900.000	ug/kg D U	1800.000	ug/kg C U	1900.000	ug/kg C U
4-Bromophenyl phenyl ether	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
4-Chloro-3-methylphenol	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
4-Chlorophenylphenyl ether	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
4-Methylphenol	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
4-Nitroaniline	1900.000	ug/kg D UJ	1800.000	ug/kg C U	1900.000	ug/kg C U
4-Nitrophenol	1900.000	ug/kg D U	1800.000	ug/kg C U	1900.000	ug/kg C U
Acenaphthene	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Acenaphthylene	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Anthracene	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Benzo(a)anthracene	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Benzo(a)pyrene	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Benzo(b)fluoranthene	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Benzo(g,h,i)perylene	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Benzo(k)fluoranthene	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Benzoic acid	1900.000	ug/kg D U	1800.000	ug/kg C U	1900.000	ug/kg C U
Benzyl alcohol	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Butyl benzyl phthalate	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Chrysene	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Di-n-butyl phthalate	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Di-n-octyl phthalate	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Dibenzo(a,h)anthracene	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Dibenzofuran	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Diethyl phthalate	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Dimethyl phthalate	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Fluoranthene	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Fluorene	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Hexachlorobenzene	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Hexachlorobutadiene	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Hexachlorocyclopentadiene	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Hexachloroethane	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Indeno(1,2,3-cd)pyrene	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Isophorone	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Methyl parathion	NA		50.000	ug/kg C U	50.000	ug/kg C U
N-Nitroso-di-n-propylamine	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
N-Nitrosodiphenylamine	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Naphthalene	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Nitrobenzene	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Parathion	NA		50.000	ug/kg C U	50.000	ug/kg C U
Pentachlorophenol	1900.000	ug/kg D U	1800.000	ug/kg C U	1900.000	ug/kg C U
Phenanthrene	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
Phenol	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U

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TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1465		1468		1471	
SAMPLE NUMBER	055945		055959		055972	
SAMPLING DATE	3.5-3.5		2.5-2.5		4-4	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ
<u>Semivolatile Organics</u>						
Pyrene	44.000	ug/kg D J	380.000	ug/kg C U	380.000	ug/kg C U
Sulfotep	NA		50.000	ug/kg C U	50.000	ug/kg C U
bis(2-Chloroethoxy)methane	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
bis(2-Chloroethyl)ether	400.000	ug/kg D UJ	380.000	ug/kg C U	380.000	ug/kg C U
bis(2-Chloroisopropyl) ether	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
bis(2-Ethylhexyl) phthalate	400.000	ug/kg D U	40.000	ug/kg C J	380.000	ug/kg C U
p-Chloroaniline	400.000	ug/kg D U	380.000	ug/kg C U	380.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	19.000	ug/kg D UJ	180.000	ug/kg C U	18.000	ug/kg C U
4,4'-DDE	19.000	ug/kg D UJ	180.000	ug/kg C U	18.000	ug/kg C U
4,4'-DDT	19.000	ug/kg D UJ	180.000	ug/kg C U	18.000	ug/kg C U
Aldrin	9.700	ug/kg D UJ	92.000	ug/kg C U	9.200	ug/kg C U
Aroclor-1016	97.000	ug/kg D UJ	920.000	ug/kg C U	92.000	ug/kg C U
Aroclor-1221	97.000	ug/kg D UJ	920.000	ug/kg C U	92.000	ug/kg C U
Aroclor-1232	97.000	ug/kg D UJ	920.000	ug/kg C U	92.000	ug/kg C U
Aroclor-1242	97.000	ug/kg D UJ	920.000	ug/kg C U	92.000	ug/kg C U
Aroclor-1248	97.000	ug/kg D UJ	920.000	ug/kg C U	92.000	ug/kg C U
Aroclor-1254	190.000	ug/kg D UJ	710.000	ug/kg C J	180.000	ug/kg C U
Aroclor-1260	190.000	ug/kg D UJ	1800.000	ug/kg C U	180.000	ug/kg C U
Dieldrin	19.000	ug/kg D UJ	180.000	ug/kg C U	18.000	ug/kg C U
Dimethoate	NA		50.000	ug/kg C U	50.000	ug/kg C U
Disulfoton	NA		50.000	ug/kg C U	50.000	ug/kg C U
Endosulfan II	19.000	ug/kg D UJ	180.000	ug/kg C U	18.000	ug/kg C U
Endosulfan sulfate	19.000	ug/kg D UJ	180.000	ug/kg C U	18.000	ug/kg C U
Endosulfan-I	9.700	ug/kg D UJ	92.000	ug/kg C U	9.200	ug/kg C U
Endrin	19.000	ug/kg D UJ	180.000	ug/kg C U	18.000	ug/kg C U
Endrin ketone	19.000	ug/kg D UJ	180.000	ug/kg C U	18.000	ug/kg C U
Famphur	NA		100.000	ug/kg C U	100.000	ug/kg C U
Heptachlor	9.700	ug/kg D UJ	92.000	ug/kg C U	9.200	ug/kg C U
Heptachlor epoxide	9.700	ug/kg D UJ	92.000	ug/kg C U	9.200	ug/kg C U
Methoxychlor	97.000	ug/kg D UJ	920.000	ug/kg C U	92.000	ug/kg C U
Phorate	NA		50.000	ug/kg C U	50.000	ug/kg C U
Thionazin	NA		50.000	ug/kg C U	50.000	ug/kg C U
Toxaphene	190.000	ug/kg D UJ	1800.000	ug/kg C U	180.000	ug/kg C U
alpha-BHC	9.700	ug/kg D UJ	92.000	ug/kg C U	9.200	ug/kg C U
alpha-Chlordane	97.000	ug/kg D UJ	920.000	ug/kg C U	92.000	ug/kg C U
beta-BHC	9.700	ug/kg D UJ	92.000	ug/kg C U	9.200	ug/kg C U
delta-BHC	9.700	ug/kg D UJ	92.000	ug/kg C U	9.200	ug/kg C U
gamma-BHC (Lindane)	9.700	ug/kg D UJ	92.000	ug/kg C U	9.200	ug/kg C U
gamma-Chlordane	97.000	ug/kg D UJ	920.000	ug/kg C U	92.000	ug/kg C U

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TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1474	1792	1792			
SAMPLE NUMBER	055988	067343	067346			
SAMPLING DATE	0-10 11/17/89	1.5-3 08/21/91	6-7.5 08/21/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Inorganics						
Aluminum	8020.000	mg/kg C NV	13500.000	mg/kg D -	4860.000	mg/kg D -
Antimony	5.400	mg/kg E NV	7.800	mg/kg D J	29.700	mg/kg D J
Arsenic	2.200	mg/kg E NV	7.600	mg/kg D -	4.200	mg/kg D -
Barium	29.400	mg/kg E NV	123.000	mg/kg D -	52.500	mg/kg D -
Beryllium	1.300	mg/kg E NV	1.000	mg/kg D -	0.800	mg/kg D -
Boron	NA		17.100	mg/kg D -	36.000	mg/kg D J
Cadmium	5.500	mg/kg E NV	0.440	mg/kg D UJ	4.900	mg/kg D J
Calcium	111000.000	mg/kg E NV	6430.000	mg/kg D -	165000.000	mg/kg D -
Chromium	22.700	mg/kg E NV	21.000	mg/kg D -	27.300	mg/kg D -
Cobalt	10.800	mg/kg D NV	13.200	mg/kg D -	10.000	mg/kg D J
Copper	17.700	mg/kg D NV	20.300	mg/kg D -	16.500	mg/kg D -
Cyanide	0.300	mg/kg E NV	0.110	mg/kg D UJ	0.100	mg/kg D UJ
Iron	13100.000	mg/kg C NV	29200.000	mg/kg D -	16200.000	mg/kg D -
Lead	8.100	mg/kg C NV	14.300	mg/kg D -	14.100	mg/kg D -
Magnesium	41600.000	mg/kg C NV	3810.000	mg/kg D -	35300.000	mg/kg D -
Manganese	323.000	mg/kg C NV	303.000	mg/kg D -	361.000	mg/kg D -
Mercury	0.100	mg/kg C NV	0.110	mg/kg D U	0.110	mg/kg D U
Molybdenum	1.800	mg/kg C NV	15.800	mg/kg D -	13.000	mg/kg D J
Nickel	31.100	mg/kg C NV	22.700	mg/kg D -	20.600	mg/kg D -
Potassium	1640.000	mg/kg C NV	623.000	mg/kg D -	642.000	mg/kg D -
Selenium	0.410	mg/kg E NV	0.440	mg/kg D UJ	0.430	mg/kg D U
Silicon	NA		636.000	mg/kg D J	883.000	mg/kg D J
Silver	1.800	mg/kg C NV	2.200	mg/kg D -	16.200	mg/kg D -
Sodium	199.000	mg/kg E NV	37.500	mg/kg D U	166.000	mg/kg D -
Thallium	0.210	mg/kg E NV	0.440	mg/kg D U	0.430	mg/kg D U
Vanadium	24.800	mg/kg E NV	32.800	mg/kg D -	24.900	mg/kg D -
Zinc	46.700	mg/kg E NV	56.900	mg/kg D -	26.900	mg/kg D -
Volatile Organics						
1,1,1-Trichloroethane	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
1,1,2,2-Tetrachloroethane	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
1,1,2-Trichloroethane	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
1,1-Dichloroethane	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
1,1-Dichloroethene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
1,2-Dichloroethane	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
1,2-Dichloroethene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
1,2-Dichloropropane	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
2-Butanone	12.000	ug/kg D U	11.000	ug/kg D U	11.000	ug/kg D UJ
2-Hexanone	12.000	ug/kg D U	11.000	ug/kg D U	11.000	ug/kg D UJ
4-Methyl-2-pentanone	12.000	ug/kg D U	11.000	ug/kg D U	11.000	ug/kg D UJ
Acetone	12.000	ug/kg D U	11.000	ug/kg D U	11.000	ug/kg D UJ

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TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1474	1792	1792			
SAMPLE NUMBER	055988	067343	067346			
SAMPLING DATE	0-10 11/17/89	1.5-3 08/21/91	6-7.5 08/21/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Benzene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
Bromodichloromethane	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
Bromoform	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
Bromomethane	12.000	ug/kg D UJ	11.000	ug/kg D U	11.000	ug/kg D UJ
Carbon Tetrachloride	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
Carbon disulfide	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
Chlorobenzene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
Chloroethane	12.000	ug/kg D U	11.000	ug/kg D U	11.000	ug/kg D UJ
Chloroform	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
Chloromethane	12.000	ug/kg D U	11.000	ug/kg D U	11.000	ug/kg D UJ
Dibromochloromethane	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
Ethylbenzene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
Methylene chloride	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
Styrene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
Tetrachloroethene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
Toluene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
Trichloroethene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
Vinyl Acetate	12.000	ug/kg D U	11.000	ug/kg D U	11.000	ug/kg D UJ
Vinyl chloride	12.000	ug/kg D U	11.000	ug/kg D U	11.000	ug/kg D UJ
Xylenes, Total	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
cis-1,3-Dichloropropene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
trans-1,3-Dichloropropene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D UJ
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
1,2-Dichlorobenzene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
1,3-Dichlorobenzene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
1,4-Dichlorobenzene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
2,4,5-Trichlorophenol	1900.000	ug/kg D U	1800.000	ug/kg D R	1800.000	ug/kg D R
2,4,6-Trichlorophenol	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
2,4-Dichlorophenol	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
2,4-Dimethylphenol	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
2,4-Dinitrophenol	1900.000	ug/kg D UJ	1800.000	ug/kg D R	1800.000	ug/kg D R
2,4-Dinitrotoluene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
2,6-Dinitrotoluene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
2-Chloronaphthalene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
2-Chlorophenol	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
2-Methylnaphthalene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
2-Methylphenol	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
2-Nitroaniline	1900.000	ug/kg D U	1800.000	ug/kg D R	1800.000	ug/kg D R
2-Nitrophenol	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R

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TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1474	1792	1792			
SAMPLE NUMBER	055988	067343	067346			
SAMPLING DATE	0-10 11/17/89	1.5-3 08/21/91	6-7.5 08/21/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
3,3'-Dichlorobenzidine	780.000	ug/kg D UJ	750.000	ug/kg D R	720.000	ug/kg D R
3-Nitroaniline	1900.000	ug/kg D U	1800.000	ug/kg D R	1800.000	ug/kg D R
4,6-Dinitro-2-methylphenol	1900.000	ug/kg D UJ	1800.000	ug/kg D R	1800.000	ug/kg D R
4-Bromophenyl phenyl ether	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
4-Chloro-3-methylphenol	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
4-Chlorophenylphenyl ether	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
4-Methylphenol	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
4-Nitroaniline	1900.000	ug/kg D U	1800.000	ug/kg D R	1800.000	ug/kg D R
4-Nitrophenol	1900.000	ug/kg D U	1800.000	ug/kg D R	1800.000	ug/kg D R
Acenaphthene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Acenaphthylene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Anthracene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Benzo(a)anthracene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Benzo(a)pyrene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Benzo(b)fluoranthene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Benzo(g,h,i)perylene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Benzo(k)fluoranthene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Benzoic acid	1900.000	ug/kg D U	1800.000	ug/kg D R	47.000	ug/kg D J
Benzyl alcohol	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Butyl benzyl phthalate	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Chrysene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Di-n-butyl phthalate	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Di-n-octyl phthalate	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Dibenzo(a,h)anthracene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Dibenzofuran	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Diethyl phthalate	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Dimethyl phthalate	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Fluoranthene	390.000	ug/kg D U	370.000	ug/kg D R	42.000	ug/kg D J
Fluorene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Hexachlorobenzene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Hexachlorobutadiene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Hexachlorocyclopentadiene	390.000	ug/kg D UJ	370.000	ug/kg D R	360.000	ug/kg D R
Hexachloroethane	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Indeno(1,2,3-cd)pyrene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Isophorone	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Methyl parathion	50.000	ug/kg D U	100.000	ug/kg C U	100.000	ug/kg C R
N-Nitroso-di-n-propylamine	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
N-Nitrosodiphenylamine	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Naphthalene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Nitrobenzene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
O,O,O-Triethylphosphorothioate	NA		100.000	ug/kg D U	100.000	ug/kg D U
Parathion	50.000	ug/kg D U	100.000	ug/kg C U	100.000	ug/kg C R

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TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1474	1792	1792			
SAMPLE NUMBER	055988	067343	067346			
SAMPLING DATE	0-10 11/17/89	1.5-3 08/21/91	6-7.5 08/21/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Pentachlorophenol	1900.000	ug/kg D U	1800.000	ug/kg D R	1800.000	ug/kg D R
Phenanthrene	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Phenol	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
Pyrene	390.000	ug/kg D U	370.000	ug/kg D R	48.000	ug/kg D J
Sulfotep	50.000	ug/kg D U	100.000	ug/kg C U	100.000	ug/kg C R
bis(2-Chloroethoxy)methane	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
bis(2-Chloroethyl)ether	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
bis(2-Chloroisopropyl) ether	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
bis(2-Ethylhexyl) phthalate	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
p-Chloroaniline	390.000	ug/kg D U	370.000	ug/kg D R	360.000	ug/kg D R
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	18.000	ug/kg D U	18.000	ug/kg D U	18.000	ug/kg D U
4,4'-DDE	18.000	ug/kg D U	18.000	ug/kg D U	18.000	ug/kg D U
4,4'-DDT	18.000	ug/kg D U	18.000	ug/kg D U	18.000	ug/kg D U
Aldrin	9.200	ug/kg D U	9.100	ug/kg D U	8.900	ug/kg D U
Aroclor-1016	92.000	ug/kg D U	91.000	ug/kg D U	89.000	ug/kg D U
Aroclor-1221	92.000	ug/kg D U	91.000	ug/kg D U	89.000	ug/kg D U
Aroclor-1232	92.000	ug/kg D U	91.000	ug/kg D U	89.000	ug/kg D U
Aroclor-1242	92.000	ug/kg D U	91.000	ug/kg D U	89.000	ug/kg D U
Aroclor-1248	92.000	ug/kg D U	91.000	ug/kg D U	89.000	ug/kg D U
Aroclor-1254	180.000	ug/kg D U	180.000	ug/kg D U	32.000	ug/kg D J
Aroclor-1260	180.000	ug/kg D U	180.000	ug/kg D U	180.000	ug/kg D U
Azinphosmethyl	NA		1000.000	ug/kg C U	1000.000	ug/kg C U
Demeton	NA		200.000	ug/kg C U	200.000	ug/kg C U
Diazinon	NA		100.000	ug/kg C U	100.000	ug/kg C R
Dieldrin	18.000	ug/kg D U	18.000	ug/kg D U	18.000	ug/kg D U
Dimethoate	50.000	ug/kg D U	100.000	ug/kg C U	100.000	ug/kg C R
Disulfoton	50.000	ug/kg D U	100.000	ug/kg C U	100.000	ug/kg C R
Endosulfan II	18.000	ug/kg D U	18.000	ug/kg D U	18.000	ug/kg D U
Endosulfan sulfate	18.000	ug/kg D U	18.000	ug/kg D U	18.000	ug/kg D U
Endosulfan-I	9.200	ug/kg D U	9.100	ug/kg D U	8.900	ug/kg D U
Endrin	18.000	ug/kg D U	18.000	ug/kg D U	18.000	ug/kg D U
Endrin ketone	18.000	ug/kg D U	18.000	ug/kg D U	18.000	ug/kg D U
Ethion	NA		100.000	ug/kg C U	100.000	ug/kg C R
Famphur	100.000	ug/kg D U	100.000	ug/kg C U	100.000	ug/kg C R
Heptachlor	9.200	ug/kg D U	9.100	ug/kg D U	8.900	ug/kg D U
Heptachlor epoxide	9.200	ug/kg D U	9.100	ug/kg D U	8.900	ug/kg D U
Malathion	NA		100.000	ug/kg C U	100.000	ug/kg C R
Methoxychlor	92.000	ug/kg D U	91.000	ug/kg D U	89.000	ug/kg D U
Phorate	50.000	ug/kg D U	100.000	ug/kg C U	100.000	ug/kg C R

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TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1474	1792	1792	
SAMPLE NUMBER	055988	067343	067346	
0-10	0-10	1.5-3	6-7.5	
SAMPLING DATE	11/17/89	08/21/91	08/21/91	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	
<u>Pesticide Organics/PCBs</u>				
Tetraethylpyrophosphate	NA			
Thionazin	50.000	ug/kg D U	400.000	ug/kg C U
Toxaphene	180.000	ug/kg D U	100.000	ug/kg C U
alpha-BHC	9.200	ug/kg D U	180.000	ug/kg D U
alpha-Chlordane	92.000	ug/kg D U	9.100	ug/kg D U
beta-BHC	9.200	ug/kg D U	9.100	ug/kg D U
delta-BHC	9.200	ug/kg D U	9.100	ug/kg D U
gamma-BHC (Lindane)	9.200	ug/kg D U	9.100	ug/kg D U
gamma-Chlordane	92.000	ug/kg D U	91.000	ug/kg D U
<u>Dioxin/Furan</u>				
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	NA		0.029	ug/kg E U
1,2,3,4,6,7,8-Heptachlorodibenzofuran	NA		0.026	ug/kg E U
1,2,3,4,7,8,9-Heptachlorodibenzofuran	NA		0.037	ug/kg E U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	NA		0.085	ug/kg E U
1,2,3,4,7,8-Hexachlorodibenzofuran	NA		0.044	ug/kg E U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	NA		0.065	ug/kg E U
1,2,3,6,7,8-Hexachlorodibenzofuran	NA		0.039	ug/kg E U
1,2,3,7,8,9-Heptachlorodibenzo-p-dioxin	NA		0.070	ug/kg E U
1,2,3,7,8,9-Heptachlorodibenzofuran	NA		0.050	ug/kg E U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	NA		0.060	ug/kg E U
1,2,3,7,8-Pentachlorodibenzofuran	NA		0.039	ug/kg E U
2,3,4,6,7,8-Hexachlorodibenzofuran	NA		0.046	ug/kg E U
2,3,4,7,8-Pentachlorodibenzofuran	NA		0.043	ug/kg E U
2,3,7,8-TCDD	NA		0.130	ug/kg E U
2,3,7,8-TCDF	NA		0.058	ug/kg E U
Heptachlorodibenzo-p-dioxin	NA		0.029	ug/kg E U
Heptachlorodibenzofuran	NA		0.030	ug/kg E U
Hexachlorodibenzo-p-dioxin	NA		0.070	ug/kg E U
Hexachlorodibenzofuran	NA		0.044	ug/kg E U
Octachlorodibenzo-p-dioxin	NA		0.180	ug/kg E U
Octachlorodibenzofuran	NA		0.037	ug/kg E U
Pentachlorodibenzo-p-dioxin	NA		0.060	ug/kg E U
Pentachlorodibenzofuran	NA		0.041	ug/kg E U
Tetrachlorodibenzo-p-dioxin	NA		0.013	ug/kg E U
Tetrachlorodibenzofuran	NA		0.023	ug/kg E U

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TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1792	1792	1792			
SAMPLE NUMBER	067350 12-13.5 08/21/91	067353 16.5-18 08/22/91	067356 21.5-23 08/22/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ
Inorganics						
Aluminum	6960.000	mg/kg D -	8850.000	mg/kg D -	10900.000	mg/kg D -
Antimony	21.400	mg/kg D J	18.700	mg/kg D J	13.800	mg/kg D J
Arsenic	3.900	mg/kg D -	4.500	mg/kg D -	4.700	mg/kg D -
Barium	75.800	mg/kg D -	77.700	mg/kg D -	83.900	mg/kg D -
Beryllium	0.850	mg/kg D -	0.930	mg/kg D -	0.970	mg/kg D -
Boron	31.100	mg/kg D J	31.200	mg/kg D J	25.200	mg/kg D -
Cadmium	3.200	mg/kg D J	2.900	mg/kg D J	1.800	mg/kg D J
Calcium	90400.000	mg/kg D -	90700.000	mg/kg D -	48800.000	mg/kg D -
Chromium	31.900	mg/kg D -	29.100	mg/kg D -	27.200	mg/kg D -
Cobalt	11.800	mg/kg D J	12.000	mg/kg D J	13.400	mg/kg D -
Copper	19.900	mg/kg D -	20.000	mg/kg D -	21.500	mg/kg D -
Cyanide	0.120	mg/kg D UJ	0.120	mg/kg D UJ	0.130	mg/kg D UJ
Iron	17700.000	mg/kg D -	19000.000	mg/kg D -	22800.000	mg/kg D -
Lead	1140.000	mg/kg D -	17.100	mg/kg D -	16.400	mg/kg D -
Magnesium	25300.000	mg/kg D -	23000.000	mg/kg D -	15100.000	mg/kg D -
Manganese	429.000	mg/kg D -	502.000	mg/kg D -	435.000	mg/kg D -
Mercury	0.120	mg/kg D U	0.110	mg/kg D U	0.120	mg/kg D U
Molybdenum	13.400	mg/kg D J	14.100	mg/kg D J	14.800	mg/kg D -
Nickel	22.100	mg/kg D -	23.900	mg/kg D -	24.200	mg/kg D -
Potassium	770.000	mg/kg D -	1230.000	mg/kg D -	979.000	mg/kg D -
Selenium	0.470	mg/kg D U	0.470	mg/kg D U	0.480	mg/kg D U
Silicon	941.000	mg/kg D J	946.000	mg/kg D J	975.000	mg/kg D J
Silver	13.200	mg/kg D J	13.300	mg/kg D J	9.400	mg/kg D -
Sodium	155.000	mg/kg D -	157.000	mg/kg D -	114.000	mg/kg D -
Thallium	0.470	mg/kg D U	0.470	mg/kg D U	0.480	mg/kg D U
Vanadium	27.000	mg/kg D -	29.000	mg/kg D -	29.900	mg/kg D -
Zinc	53.200	mg/kg D -	43.300	mg/kg D -	50.900	mg/kg D -
Volatile Organics						
1,1,1-Trichloroethane	6.000	ug/kg D UJ	6.000	ug/kg D U	6.000	ug/kg D UJ
1,1,2,2-Tetrachloroethane	6.000	ug/kg D UJ	6.000	ug/kg D U	6.000	ug/kg D UJ
1,1,2-Trichloroethane	6.000	ug/kg D UJ	6.000	ug/kg D U	6.000	ug/kg D UJ
1,1-Dichloroethane	6.000	ug/kg D UJ	6.000	ug/kg D U	6.000	ug/kg D UJ
1,1-Dichloroethene	6.000	ug/kg D UJ	6.000	ug/kg D U	6.000	ug/kg D UJ
1,2-Dichloroethane	6.000	ug/kg D UJ	6.000	ug/kg D U	6.000	ug/kg D UJ
1,2-Dichloroethene	6.000	ug/kg D UJ	6.000	ug/kg D U	6.000	ug/kg D UJ
1,2-Dichloropropane	6.000	ug/kg D UJ	6.000	ug/kg D U	6.000	ug/kg D UJ
2-Butanone	12.000	ug/kg D UJ	12.000	ug/kg D U	6.000	ug/kg D UJ
2-Hexanone	6.000	ug/kg D UJ	6.000	ug/kg D U	12.000	ug/kg D J
4-Methyl-2-pentanone	12.000	ug/kg D UJ	1.000	ug/kg D J	3.000	ug/kg D J
Acetone	36.000	ug/kg D UJ	36.000	ug/kg D -	56.000	ug/kg D J

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TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1792	1792	1792
SAMPLE NUMBER	067350	067353	067356
SAMPLING DATE	12-13-5 08/21/91	16-5-18 08/22/91	21-5-23 08/22/91
CHEMICAL PARAMETERS	RESULTS UNITS L VQ	RESULTS UNITS L VQ	RESULTS UNITS L VQ
Volatile Organics			
Benzene	6.000 ug/kg D UJ	6.000 ug/kg D U	6.000 ug/kg D UJ
Bromodichloromethane	6.000 ug/kg D UJ	6.000 ug/kg D U	6.000 ug/kg D UJ
Bromoform	6.000 ug/kg D UJ	6.000 ug/kg D U	6.000 ug/kg D UJ
Bromomethane	12.000 ug/kg D UJ	12.000 ug/kg D U	12.000 ug/kg D UJ
Carbon Tetrachloride	6.000 ug/kg D UJ	6.000 ug/kg D U	6.000 ug/kg D UJ
Carbon disulfide	6.000 ug/kg D UJ	6.000 ug/kg D U	6.000 ug/kg D UJ
Chlorobenzene	6.000 ug/kg D UJ	6.000 ug/kg D U	6.000 ug/kg D UJ
Chloroethane	12.000 ug/kg D UJ	12.000 ug/kg D U	12.000 ug/kg D UJ
Chloroform	6.000 ug/kg D UJ	6.000 ug/kg D U	6.000 ug/kg D UJ
Chloromethane	12.000 ug/kg D UJ	12.000 ug/kg D U	12.000 ug/kg D UJ
Dibromochloromethane	6.000 ug/kg D UJ	6.000 ug/kg D U	6.000 ug/kg D UJ
Ethylbenzene	6.000 ug/kg D UJ	6.000 ug/kg D U	6.000 ug/kg D UJ
Methylene chloride	6.000 ug/kg D UJ	6.000 ug/kg D U	11.000 ug/kg D UJ
Styrene	6.000 ug/kg D UJ	6.000 ug/kg D U	6.000 ug/kg D UJ
Tetrachloroethene	6.000 ug/kg D UJ	6.000 ug/kg D U	6.000 ug/kg D UJ
Toluene	6.000 ug/kg D UJ	6.000 ug/kg D U	6.000 ug/kg D UJ
Trichloroethene	6.000 ug/kg D UJ	6.000 ug/kg D U	6.000 ug/kg D UJ
Vinyl Acetate	12.000 ug/kg D UJ	12.000 ug/kg D U	12.000 ug/kg D UJ
Vinyl chloride	12.000 ug/kg D UJ	12.000 ug/kg D U	12.000 ug/kg D UJ
Xylenes, Total	2.000 ug/kg D J	1.000 ug/kg D J	6.000 ug/kg D UJ
cis-1,3-Dichloropropene	6.000 ug/kg D UJ	6.000 ug/kg D U	6.000 ug/kg D UJ
trans-1,3-Dichloropropene	6.000 ug/kg D UJ	6.000 ug/kg D U	6.000 ug/kg D UJ
Semivolatile Organics			
1,2,4-Trichlorobenzene	390.000 ug/kg D R	390.000 ug/kg D R	410.000 ug/kg D R
1,2-Dichlorobenzene	390.000 ug/kg D R	390.000 ug/kg D R	410.000 ug/kg D R
1,3-Dichlorobenzene	390.000 ug/kg D R	390.000 ug/kg D R	410.000 ug/kg D R
1,4-Dichlorobenzene	390.000 ug/kg D R	390.000 ug/kg D R	410.000 ug/kg D R
2,4,5-Trichlorophenol	1900.000 ug/kg D R	1900.000 ug/kg D R	2000.000 ug/kg D R
2,4,6-Trichlorophenol	390.000 ug/kg D R	390.000 ug/kg D R	410.000 ug/kg D R
2,4-Dichlorophenol	390.000 ug/kg D R	390.000 ug/kg D R	410.000 ug/kg D R
2,4-Dimethylphenol	390.000 ug/kg D R	390.000 ug/kg D R	410.000 ug/kg D R
2,4-Dinitrophenol	1900.000 ug/kg D R	1900.000 ug/kg D R	2000.000 ug/kg D R
2,4-Dinitrotoluene	390.000 ug/kg D R	390.000 ug/kg D R	410.000 ug/kg D R
2,6-Dinitrotoluene	390.000 ug/kg D R	390.000 ug/kg D R	410.000 ug/kg D R
2-Chloronaphthalene	390.000 ug/kg D R	390.000 ug/kg D R	410.000 ug/kg D R
2-Chlorophenol	390.000 ug/kg D R	390.000 ug/kg D R	410.000 ug/kg D R
2-Methylnaphthalene	56.000 ug/kg D J	390.000 ug/kg D R	410.000 ug/kg D R
2-Methylphenol	390.000 ug/kg D R	390.000 ug/kg D R	410.000 ug/kg D R
2-Nitroaniline	1900.000 ug/kg D R	1900.000 ug/kg D R	2000.000 ug/kg D R
2-Nitrophenol	390.000 ug/kg D R	390.000 ug/kg D R	410.000 ug/kg D R

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TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1792	1792	1792			
SAMPLE NUMBER	067350	067353	067356			
SAMPLING DATE	12-13-5 08/21/91	16.5-18 08/22/91	21.5-23 08/22/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Semivolatile Organics						
3,3'-Dichlorobenzidine	780.000	ug/kg D R	780.000	ug/kg D R	820.000	ug/kg D R
3-Nitroaniline	1900.000	ug/kg D R	1900.000	ug/kg D R	2000.000	ug/kg D R
4,6-Dinitro-2-methylphenol	1900.000	ug/kg D R	1900.000	ug/kg D R	2000.000	ug/kg D R
4-Bromophenyl phenyl ether	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
4-Chloro-3-methylphenol	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
4-Chlorophenylphenyl ether	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
4-Methylphenol	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
4-Nitroaniline	1900.000	ug/kg D R	1900.000	ug/kg D R	2000.000	ug/kg D R
4-Nitrophenol	1900.000	ug/kg D R	1900.000	ug/kg D R	2000.000	ug/kg D R
Acenaphthene	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Acenaphthylene	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Anthracene	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Benzo(a)anthracene	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Benzo(a)pyrene	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Benzo(b)fluoranthene	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Benzo(g,h,i)perylene	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Benzo(k)fluoranthene	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Benzoic acid	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Benzyl alcohol	1900.000	ug/kg D R	57.000	ug/kg D J	110.000	ug/kg D J
Butyl benzyl phthalate	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Chrysene	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Di-n-butyl phthalate	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Di-n-octyl phthalate	210.000	ug/kg D J	390.000	ug/kg D R	410.000	ug/kg D R
Dibenz(a,h)anthracene	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Dibenzofuran	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Diethyl phthalate	390.000	ug/kg D R	390.000	ug/kg D R	84.000	ug/kg D J
Dimethyl phthalate	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Fluoranthene	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Fluorene	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Hexachlorobenzene	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Hexachlorobutadiene	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Hexachlorocyclopentadiene	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Hexachloroethane	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Indeno(1,2,3-cd)pyrene	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Isophorone	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Methyl parathion	100.000	ug/kg C U	100.000	ug/kg C U	100.000	ug/kg C U
N-Nitroso-di-n-propylamine	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
N-Nitrosodiphenylamine	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Naphthalene	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Nitrobenzene	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
O,O,O-Triethylphosphorothioate	100.000	ug/kg D U	100.000	ug/kg D U	100.000	ug/kg D U
Parathion	100.000	ug/kg C U	100.000	ug/kg C U	100.000	ug/kg C U

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TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1792	1792	1792			
SAMPLE NUMBER	067350	067353	067356			
SAMPLING DATE	12-13.5 08/21/91	16.5-18 08/22/91	21.5-23 08/22/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Pentachlorophenol	1900.000	ug/kg D R	1900.000	ug/kg D R	2000.000	ug/kg D R
Phenanthrene	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Pheno1	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
Pyrene	51.000	ug/kg D J	57.000	ug/kg D J	410.000	ug/kg D R
Sulfotap	100.000	ug/kg C U	100.000	ug/kg C U	100.000	ug/kg C U
bis(2-Chloroethoxy)methane	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
bis(2-Chloroethyl)ether	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
bis(2-Chloroisopropyl) ether	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
bis(2-Ethylhexyl) phthalate	83.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
p-Chloroaniline	390.000	ug/kg D R	390.000	ug/kg D R	410.000	ug/kg D R
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	19.000	ug/kg D U	19.000	ug/kg D U	20.000	ug/kg D U
4,4'-DDE	19.000	ug/kg D U	19.000	ug/kg D U	20.000	ug/kg D U
4,4'-DDT	19.000	ug/kg D U	19.000	ug/kg D U	20.000	ug/kg D U
Aldrin	9.700	ug/kg D U	9.700	ug/kg D U	10.000	ug/kg D U
Aroclor-1016	97.000	ug/kg D U	97.000	ug/kg D U	100.000	ug/kg D U
Aroclor-1221	97.000	ug/kg D U	97.000	ug/kg D U	100.000	ug/kg D U
Aroclor-1232	97.000	ug/kg D U	97.000	ug/kg D U	100.000	ug/kg D U
Aroclor-1242	97.000	ug/kg D U	97.000	ug/kg D U	100.000	ug/kg D U
Aroclor-1248	97.000	ug/kg D U	97.000	ug/kg D U	100.000	ug/kg D U
Aroclor-1254	100.000	ug/kg D J	190.000	ug/kg D U	200.000	ug/kg D U
Aroclor-1260	190.000	ug/kg D U	190.000	ug/kg D U	200.000	ug/kg D U
Azinphosmethyl	1000.000	ug/kg C U	1000.000	ug/kg C U	1000.000	ug/kg C U
Demeton	200.000	ug/kg C U	200.000	ug/kg C U	200.000	ug/kg C U
Diazinon	100.000	ug/kg C U	100.000	ug/kg C U	100.000	ug/kg C U
Die�drin	19.000	ug/kg D U	19.000	ug/kg D U	20.000	ug/kg D U
Dimethoate	100.000	ug/kg C U	100.000	ug/kg C U	100.000	ug/kg C U
Disulfoton	100.000	ug/kg C U	100.000	ug/kg C U	100.000	ug/kg C U
Endosulfan II	19.000	ug/kg D U	19.000	ug/kg D U	20.000	ug/kg D U
Endosulfan sulfate	19.000	ug/kg D U	19.000	ug/kg D U	20.000	ug/kg D U
Endosulfan-I	9.700	ug/kg D U	9.700	ug/kg D U	10.000	ug/kg D U
Endrin	19.000	ug/kg D U	19.000	ug/kg D U	20.000	ug/kg D U
Endrin ketone	19.000	ug/kg D U	19.000	ug/kg D U	20.000	ug/kg D U
Ethion	100.000	ug/kg C U	100.000	ug/kg C U	100.000	ug/kg C U
Famphur	100.000	ug/kg C U	100.000	ug/kg C U	100.000	ug/kg C U
Heptachlor	9.700	ug/kg D U	9.700	ug/kg D U	10.000	ug/kg D U
Heptachlor epoxide	9.700	ug/kg D U	9.700	ug/kg D U	10.000	ug/kg D U
Malathion	100.000	ug/kg C U	100.000	ug/kg C U	100.000	ug/kg C U
Methoxychlor	97.000	ug/kg D U	97.000	ug/kg D U	100.000	ug/kg D U
Phorate	100.000	ug/kg C U	100.000	ug/kg C U	100.000	ug/kg C U

TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1792	1792	1792			
SAMPLE NUMBER	067350	067353	067356			
SAMPLING DATE	12-13.5 08/21/91	16.5-18 08/22/91	21.5-23 08/22/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Pesticide Organics/PCBs</u>						
Tetraethylpyrophosphate	400.000	ug/kg C U	400.000	ug/kg C U	400.000	ug/kg C U
Thionazin	100.000	ug/kg C U	100.000	ug/kg C U	100.000	ug/kg C U
Toxaphene	190.000	ug/kg D U	190.000	ug/kg D U	200.000	ug/kg D U
alpha-BHC	9.700	ug/kg D U	9.700	ug/kg D U	10.000	ug/kg D U
alpha-Chlordane	97.000	ug/kg D U	97.000	ug/kg D U	100.000	ug/kg D U
beta-BHC	9.700	ug/kg D U	9.700	ug/kg D U	10.000	ug/kg D U
delta-BHC	9.700	ug/kg D U	9.700	ug/kg D U	10.000	ug/kg D U
gamma-BHC (Lindane)	9.700	ug/kg D U	9.700	ug/kg D U	10.000	ug/kg D U
gamma-Chlordane	97.000	ug/kg D U	97.000	ug/kg D U	100.000	ug/kg D U
<u>Dioxin Furan</u>						
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.850	ug/kg E U	0.160	ug/kg E U	0.044	ug/kg E U
1,2,3,4,6,7,8-Heptachlorodibenzofuran	2.500	ug/kg E U	0.220	ug/kg E UJ	0.120	ug/kg E U
1,2,3,4,7,8,9-Heptachlorodibenzo-furan	3.500	ug/kg E U	0.310	ug/kg E UJ	0.170	ug/kg E U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.370	ug/kg E U	0.160	ug/kg E U	0.180	ug/kg E U
1,2,3,4,7,8-Hexachlorodibenzofuran	0.300	ug/kg E U	0.250	ug/kg E U	0.060	ug/kg E U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.290	ug/kg E U	0.130	ug/kg E U	0.140	ug/kg E U
1,2,3,6,7,8-Hexachlorodibenzofuran	0.260	ug/kg E U	0.220	ug/kg E U	0.050	ug/kg E U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.310	ug/kg E U	0.140	ug/kg E U	0.150	ug/kg E U
1,2,3,7,8,9-Hexachlorodibenzofuran	1.900	ug/kg E U	0.290	ug/kg E U	0.070	ug/kg E U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.700	ug/kg E U	0.140	ug/kg E U	0.060	ug/kg E UJ
1,2,3,7,8-Pentachlorodibenzofuran	0.180	ug/kg E U	0.065	ug/kg E U	0.029	ug/kg E UJ
2,3,4,6,7,8-Hexachlorodibenzo-furan	1.700	ug/kg E U	0.260	ug/kg E U	0.060	ug/kg E U
2,3,4,7,8-Pentachlorodibenzofuran	0.550	ug/kg E U	0.070	ug/kg E U	0.032	ug/kg E UJ
2,3,7,8-TCDD	0.650	ug/kg E U	0.550	ug/kg E U	0.360	ug/kg E U
2,3,7,8-TCDF	0.330	ug/kg E U	0.200	ug/kg E U	0.090	ug/kg E U
Heptachlorodibenzo-p-dioxin	0.850	ug/kg E U	0.160	ug/kg E U	0.044	ug/kg E U
Heptachlorodibenzofuran	2.900	ug/kg E U	0.250	ug/kg E UJ	0.140	ug/kg E U
Hexachlorodibenzo-p-dioxin	0.320	ug/kg E U	0.140	ug/kg E U	0.160	ug/kg E U
Hexachlorodibenzofuran	1.600	ug/kg E U	0.250	ug/kg E U	0.060	ug/kg E U
Octachlorodibenzo-p-dioxin	0.750	ug/kg E -	1.100	ug/kg E -	0.120	ug/kg E J
Octachlorodibenzofuran	1.300	ug/kg E U	0.090	ug/kg E UJ	0.080	ug/kg E UJ
Pentachlorodibenzo-p-dioxin	0.700	ug/kg E U	0.140	ug/kg E U	0.060	ug/kg E UJ
Pentachlorodibenzofuran	0.550	ug/kg E U	0.070	ug/kg E U	0.030	ug/kg E UJ
Tetrachlorodibenzo-p-dioxin	0.120	ug/kg E UJ	0.030	ug/kg E U	0.015	ug/kg E U
Tetrachlorodibenzofuran	0.170	ug/kg E U	0.049	ug/kg E UJ	0.033	ug/kg E UJ

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TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1793	1794	1794
SAMPLE NUMBER	067333	067324	067328
3-4.5	3-4.5	0-1	2-2.5
SAMPLING DATE	08/15/91	08/13/91	08/13/91
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
Inorganics			
Aluminum	13200.000	mg/kg D	-
Antimony	6.800	mg/kg D	UJ
Arsenic	2.900	mg/kg D	-
Barium	102.000	mg/kg D	-
Beryllium	0.990	mg/kg D	-
Cadmium	0.690	mg/kg D	J
Calcium	19700.000	mg/kg D	-
Chromium	22.900	mg/kg D	-
Cobalt	12.800	mg/kg D	-
Copper	21.300	mg/kg D	-
Cyanide	0.120	mg/kg D	U
Iron	23900.000	mg/kg D	-
Lead	16.100	mg/kg D	-
Magnesium	6390.000	mg/kg D	-
Manganese	799.000	mg/kg D	-
Mercury	0.110	mg/kg D	U
Molybdenum	14.600	mg/kg D	-
Nickel	24.000	mg/kg D	-
Potassium	896.000	mg/kg D	-
Selenium	0.450	mg/kg D	U
Silver	4.700	mg/kg D	-
Sodium	74.200	mg/kg D	-
Thallium	0.450	mg/kg D	U
Vanadium	29.300	mg/kg D	-
Zinc	68.100	mg/kg D	-
Volatile Organics			
1,1,1-Trichloroethane	5.000	ug/kg D	UJ
1,1,2,2-Tetrachloroethane	5.000	ug/kg D	UJ
1,1,2-Trichloroethane	5.000	ug/kg D	UJ
1,1-Dichloroethane	5.000	ug/kg D	UJ
1,1-Dichloroethene	5.000	ug/kg D	UJ
1,2-Dichloroethane	5.000	ug/kg D	UJ
1,2-Dichloroethene	5.000	ug/kg D	UJ
1,2-Dichloropropene	5.000	ug/kg D	UJ
2-Butanone	11.000	ug/kg D	UJ
2-Hexanone	11.000	ug/kg D	UJ
4-Methyl-2-pentanone	11.000	ug/kg D	UJ
Acetone	11.000	ug/kg D	UJ
Benzene	5.000	ug/kg D	UJ
Bromodichloromethane	5.000	ug/kg D	UJ

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TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1793	1794	1794			
SAMPLE NUMBER	067333	067324	067328			
SAMPLING DATE	3-4.5 08/15/91	0-1 08/13/91	2-2.5 08/13/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromoform	5.000	ug/kg D UJ	6.000	ug/kg D U	5.000	ug/kg D U
Bromomethane	11.000	ug/kg D UJ	12.000	ug/kg D U	11.000	ug/kg D U
Carbon Tetrachloride	5.000	ug/kg D UJ	6.000	ug/kg D UJ	5.000	ug/kg D UJ
Carbon disulfide	5.000	ug/kg D UJ	6.000	ug/kg D U	5.000	ug/kg D U
Chlorobenzene	5.000	ug/kg D UJ	6.000	ug/kg D U	5.000	ug/kg D U
Chloroethane	11.000	ug/kg D UJ	12.000	ug/kg D U	11.000	ug/kg D U
Chloroform	5.000	ug/kg D UJ	6.000	ug/kg D U	5.000	ug/kg D U
Chloromethane	11.000	ug/kg D UJ	12.000	ug/kg D U	11.000	ug/kg D U
Dibromochloromethane	5.000	ug/kg D UJ	6.000	ug/kg D UJ	5.000	ug/kg D UJ
Ethylbenzene	5.000	ug/kg D UJ	6.000	ug/kg D U	5.000	ug/kg D U
Methylene chloride	34.000	ug/kg D UJ	10.000	ug/kg D U	6.000	ug/kg D U
Styrene	5.000	ug/kg D UJ	6.000	ug/kg D U	5.000	ug/kg D U
Tetrachloroethene	5.000	ug/kg D UJ	6.000	ug/kg D U	5.000	ug/kg D U
Toluene	5.000	ug/kg D UJ	6.000	ug/kg D U	5.000	ug/kg D UJ
Trichloroethene	5.000	ug/kg D UJ	6.000	ug/kg D U	5.000	ug/kg D U
Vinyl Acetate	11.000	ug/kg D UJ	12.000	ug/kg D U	11.000	ug/kg D U
Vinyl chloride	11.000	ug/kg D UJ	12.000	ug/kg D U	11.000	ug/kg D U
Xylenes, Total	5.000	ug/kg D UJ	6.000	ug/kg D U	5.000	ug/kg D U
cis-1,3-Dichloropropene	5.000	ug/kg D UJ	6.000	ug/kg D UJ	5.000	ug/kg D UJ
trans-1,3-Dichloropropene	5.000	ug/kg D UJ	6.000	ug/kg D UJ	5.000	ug/kg D UJ
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
1,2-Dichlorobenzene	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
1,3-Dichlorobenzene	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
1,4-Dichlorobenzene	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
2,4,5-Trichlorophenol	1700.000	ug/kg D U	1800.000	ug/kg D U	1900.000	ug/kg D U
2,4,6-Trichlorophenol	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
2,4-Dichlorophenol	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
2,4-Dimethylphenol	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
2,4-Dinitrophenol	1700.000	ug/kg D U	1800.000	ug/kg D U	1900.000	ug/kg D U
2,4-Dinitrotoluene	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
2,6-Dinitrotoluene	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
2-Chloronaphthalene	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
2-Chlorophenol	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
2-Methylnaphthalene	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
2-Methylphenol	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
2-Nitroaniline	1700.000	ug/kg D U	1800.000	ug/kg D U	1900.000	ug/kg D UJ
2-Nitrophenol	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
3,3'-Dichlorobenzidine	720.000	ug/kg D UJ	750.000	ug/kg D UJ	780.000	ug/kg D UJ
3-Nitroaniline	1700.000	ug/kg D UJ	1800.000	ug/kg D UJ	1900.000	ug/kg D R

TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1793	1794	1794			
SAMPLE NUMBER	067333	067324	067328			
SAMPLING DATE	3-4-5 08/15/91	0-1 08/13/91	2-2-5 08/13/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Semivolatile Organics						
4,6-Dinitro-2-methylphenol	1700.000	ug/kg D U	1800.000	ug/kg D U	1900.000	ug/kg D U
4-Bromophenyl phenyl ether	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
4-Chloro-3-methylphenol	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
4-Chlorophenylphenyl ether	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
4-Methylphenol	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
4-Nitroaniline	1700.000	ug/kg D UJ	1800.000	ug/kg D UJ	1900.000	ug/kg D UJ
4-Nitrophenol	1700.000	ug/kg D U	1800.000	ug/kg D U	1900.000	ug/kg D UJ
Acenaphthene	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
Acenaphthylene	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
Anthracene	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
Benzo(a)anthracene	360.000	ug/kg D U	100.000	ug/kg D J	78.000	ug/kg D J
Benzo(a)pyrene	360.000	ug/kg D U	46.000	ug/kg D J	390.000	ug/kg D U
Benzo(b)fluoranthene	360.000	ug/kg D U	140.000	ug/kg D J	88.000	ug/kg D J
Benzo(g,h,i)perylene	360.000	ug/kg D U	45.000	ug/kg D J	390.000	ug/kg D U
Benzo(k)fluoranthene	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
Benzoic acid	150.000	ug/kg D J	66.000	ug/kg D J	1900.000	ug/kg D UJ
Benzyl alcohol	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
Butyl benzyl phthalate	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
Chrysene	360.000	ug/kg D U	82.000	ug/kg D J	70.000	ug/kg D J
Di-n-butyl phthalate	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
Di-n-octyl phthalate	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
Dibenzo(a,h)anthracene	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
Dibenzofuran	360.000	ug/kg D U	NA		390.000	ug/kg D U
Diethyl phthalate	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
Dimethyl phthalate	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
Fluoranthene	360.000	ug/kg D U	170.000	ug/kg D J	150.000	ug/kg D J
Fluorene	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
Hexachlorobenzene	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
Hexachlorobutadiene	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
Hexachlorocyclopentadiene	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
Hexachloroethane	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D UJ
Indeno(1,2,3-cd)pyrene	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
Isophorone	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
Methyl parathion	100.000	ug/kg C U	100.000	ug/kg C U	100.000	ug/kg C U
N-Nitroso-di-n-propylamine	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
N-Nitrosodiphenylamine	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
Naphthalene	360.000	ug/kg D U	380.000	ug/kg D U	390.000	ug/kg D U
Nitrobenzene	360.000	ug/kg D UJ	380.000	ug/kg D UJ	390.000	ug/kg D U
O,O,O-Triethylphosphorothioate	100.000	ug/kg D U	100.000	ug/kg D U	100.000	ug/kg D U
Parathion	100.000	ug/kg C U	100.000	ug/kg C U	100.000	ug/kg C U
Pentachlorophenol	1700.000	ug/kg D U	1800.000	ug/kg D U	1900.000	ug/kg D U
Phenanthrene	360.000	ug/kg D U	96.000	ug/kg D J	93.000	ug/kg D J

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TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1793		1794		1794
SAMPLE NUMBER	067333		067324		067328
SAMPLING DATE	3-4.5		0-1		2-2.5
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>					
Phenol	360.000	ug/kg D U	380.000	ug/kg D U	390.000
Pyrene	360.000	ug/kg D U	170.000	ug/kg D J	140.000
Sulfotep	100.000	ug/kg C U	100.000	ug/kg C U	100.000
bis(2-Chloroethoxy)methane	360.000	ug/kg D U	380.000	ug/kg D U	390.000
bis(2-Chloroethyl)ether	360.000	ug/kg D U	380.000	ug/kg D U	390.000
bis(2-Chloroisopropyl) ether	360.000	ug/kg D UJ	380.000	ug/kg D UJ	390.000
bis(2-Ethylhexyl) phthalate	360.000	ug/kg D U	380.000	ug/kg D U	390.000
p-Chloroaniline	360.000	ug/kg D U	380.000	ug/kg D U	390.000
<u>Pesticide Organics/PCBs</u>					
4,4'-DDD	19.000	ug/kg D U	21.000	ug/kg D U	19.000
4,4'-DDE	19.000	ug/kg D U	21.000	ug/kg D U	19.000
4,4'-DDT	19.000	ug/kg D U	21.000	ug/kg D U	19.000
Aldrin	9.400	ug/kg D U	10.000	ug/kg D U	9.400
Aroclor-1016	94.000	ug/kg D U	100.000	ug/kg D U	94.000
Aroclor-1221	94.000	ug/kg D U	100.000	ug/kg D U	94.000
Aroclor-1232	94.000	ug/kg D U	100.000	ug/kg D U	94.000
Aroclor-1242	94.000	ug/kg D U	100.000	ug/kg D U	94.000
Aroclor-1248	94.000	ug/kg D U	100.000	ug/kg D U	94.000
Aroclor-1254	740.000	ug/kg D -	210.000	ug/kg D U	190.000
Aroclor-1260	190.000	ug/kg D U	210.000	ug/kg D U	190.000
Azinphosmethyl	200.000	ug/kg C U	200.000	ug/kg C U	200.000
Demeton	200.000	ug/kg C U	200.000	ug/kg C U	200.000
Diazinon	100.000	ug/kg C U	100.000	ug/kg C U	100.000
Dieldrin	19.000	ug/kg D U	21.000	ug/kg D U	19.000
Dimethoate	100.000	ug/kg C U	100.000	ug/kg C U	100.000
Disulfoton	100.000	ug/kg C U	100.000	ug/kg C U	100.000
Endosulfan II	19.000	ug/kg D U	21.000	ug/kg D U	19.000
Endosulfan sulfate	19.000	ug/kg D U	21.000	ug/kg D U	19.000
Endosulfan-I	9.400	ug/kg D U	10.000	ug/kg D U	9.400
Endrin	19.000	ug/kg D U	21.000	ug/kg D U	19.000
Endrin ketone	19.000	ug/kg D U	21.000	ug/kg D U	19.000
Ethion	100.000	ug/kg C U	100.000	ug/kg C U	100.000
Famphur	100.000	ug/kg C U	100.000	ug/kg C U	100.000
Heptachlor	9.400	ug/kg D U	10.000	ug/kg D U	9.400
Heptachlor epoxide	9.400	ug/kg D U	10.000	ug/kg D U	9.400
Malathion	100.000	ug/kg C U	100.000	ug/kg C U	100.000
Methoxychlor	94.000	ug/kg D U	100.000	ug/kg D U	94.000
Phorate	100.000	ug/kg C U	100.000	ug/kg C U	100.000
Tetraethylpyrophosphate	400.000	ug/kg C U	400.000	ug/kg C U	400.000
Thionazin	100.000	ug/kg C U	100.000	ug/kg C U	100.000

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FEMP-OU026 FINAL
January 21, 1995

TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1793			1794			1794					
SAMPLE NUMBER	067333			067324			067328					
SAMPLING DATE	3-4-5 08/15/91			0-1 08/13/91			2-2.5 08/13/91					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Pesticide Organics/PCBs</u>												
Toxaphene	190.000	ug/kg	D	U	210.000	ug/kg	D	U	190.000	ug/kg	D	U
alpha-BHC	9.400	ug/kg	D	U	10.000	ug/kg	D	U	9.400	ug/kg	D	U
alpha-Chlordane	94.000	ug/kg	D	U	100.000	ug/kg	D	U	94.000	ug/kg	D	U
beta-BHC	9.400	ug/kg	D	U	10.000	ug/kg	D	U	9.400	ug/kg	D	U
delta-BHC	9.400	ug/kg	D	U	10.000	ug/kg	D	U	9.400	ug/kg	D	U
gamma-BHC (Lindane)	9.400	ug/kg	D	U	10.000	ug/kg	D	U	9.400	ug/kg	D	U
gamma-Chlordane	94.000	ug/kg	D	U	100.000	ug/kg	D	U	94.000	ug/kg	D	U
<u>Dioxin/Furan</u>												
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.150	ug/kg	E	U	0.130	ug/kg	E	U	0.048	ug/kg	E	U
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.090	ug/kg	E	U	0.070	ug/kg	E	UJ	0.080	ug/kg	E	UJ
1,2,3,4,7,8,9-Heptachlorodibenzo-furan	0.130	ug/kg	E	U	0.095	ug/kg	E	UJ	0.120	ug/kg	E	UJ
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.049	ug/kg	E	U	0.140	ug/kg	E	U	0.090	ug/kg	E	U
1,2,3,4,7,8-Hexachlorodibenzofuran	0.080	ug/kg	E	U	0.130	ug/kg	E	U	0.070	ug/kg	E	U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.039	ug/kg	E	U	0.110	ug/kg	E	U	0.070	ug/kg	E	U
1,2,3,6,7,8-Hexachlorodibenzofuran	0.070	ug/kg	E	U	0.120	ug/kg	E	U	0.065	ug/kg	E	U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.041	ug/kg	E	U	0.120	ug/kg	E	U	0.075	ug/kg	E	U
1,2,3,7,8,9-Hexachlorodibenzofuran	0.090	ug/kg	E	U	0.150	ug/kg	E	U	0.085	ug/kg	E	U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.055	ug/kg	E	UJ	0.060	ug/kg	E	U	0.065	ug/kg	E	U
1,2,3,7,8-Pentachlorodibenzofuran	0.033	ug/kg	E	UJ	0.024	ug/kg	E	U	0.055	ug/kg	E	U
2,3,4,6,7,8-Hexachlorodibenzofuran	0.080	ug/kg	E	U	0.140	ug/kg	E	U	0.075	ug/kg	E	U
2,3,4,7,8-Pentachlorodibenzofuran	0.036	ug/kg	E	UJ	0.026	ug/kg	E	U	0.060	ug/kg	E	U
2,3,7,8-TCDD	0.110	ug/kg	E	U	0.160	ug/kg	E	U	0.100	ug/kg	E	U
2,3,7,8-TCDF	0.090	ug/kg	E	U	0.140	ug/kg	E	U	0.055	ug/kg	E	U
Heptachlorodibenzo-p-dioxin	0.150	ug/kg	E	U	0.130	ug/kg	E	UJ	0.048	ug/kg	E	U
Heptachlorodibenzofuran	0.110	ug/kg	E	U	0.080	ug/kg	E	UJ	0.095	ug/kg	E	UJ
Hexachlorodibenzo-p-dioxin	0.042	ug/kg	E	U	0.120	ug/kg	E	U	0.075	ug/kg	E	U
Hexachlorodibenzofuran	0.080	ug/kg	E	U	0.130	ug/kg	E	U	0.075	ug/kg	E	U
Octachlorodibenzo-p-dioxin	0.650	ug/kg	E	-	0.600	ug/kg	E	-	1.500	ug/kg	E	-
Octachlorodibenzofuran	0.130	ug/kg	E	U	0.150	ug/kg	E	U	0.095	ug/kg	E	U
Pentachlorodibenzo-p-dioxin	0.055	ug/kg	E	UJ	0.060	ug/kg	E	U	0.065	ug/kg	E	U
Pentachlorodibenzofuran	0.034	ug/kg	E	UJ	0.025	ug/kg	E	U	0.055	ug/kg	E	U
Tetrachlorodibenzo-p-dioxin	0.024	ug/kg	E	U	0.019	ug/kg	E	U	0.019	ug/kg	E	U
Tetrachlorodibenzofuran	0.035	ug/kg	E	UJ	0.029	ug/kg	E	U	0.055	ug/kg	E	U

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000639

TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1795			1795					
SAMPLE NUMBER	067367	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
SAMPLING DATE	0-1 08/23/91					3-4 08/23/91			
CHEMICAL PARAMETERS									
Inorganics									
Aluminum	10900.000	mg/kg	D	-		12200.000	mg/kg	D	-
Antimony	10.200	mg/kg	D	J		7.900	mg/kg	D	J
Arsenic	4.000	mg/kg	D	-		6.900	mg/kg	D	-
Barium	NA					159.000	mg/kg	D	-
Beryllium	0.770	mg/kg	D	-		0.820	mg/kg	D	-
Boron	23.100	mg/kg	D	U		22.700	mg/kg	D	U
Cadmium	1.500	mg/kg	D	J		0.450	mg/kg	D	UJ
Calcium	31500.000	mg/kg	D	-		3720.000	mg/kg	D	-
Chromium	24.700	mg/kg	D	-		20.800	mg/kg	D	-
Cobalt	13.200	mg/kg	D	-		14.400	mg/kg	D	-
Copper	18.000	mg/kg	D	-		21.300	mg/kg	D	-
Cyanide	0.110	mg/kg	D	UJ		2.600	mg/kg	D	-
Iron	20000.000	mg/kg	D	-		24500.000	mg/kg	D	-
Lead	10.500	mg/kg	D	-		12.200	mg/kg	D	-
Magnesium	9930.000	mg/kg	D	-		4160.000	mg/kg	D	-
Manganese	358.000	mg/kg	D	-		380.000	mg/kg	D	-
Mercury	0.120	mg/kg	D	UJ		0.110	mg/kg	D	UJ
Molybdenum	14.500	mg/kg	D	-		15.500	mg/kg	D	-
Nickel	21.800	mg/kg	D	-		28.400	mg/kg	D	-
Potassium	925.000	mg/kg	D	-		696.000	mg/kg	D	U
Selenium	0.450	mg/kg	D	U		0.450	mg/kg	D	U
Silicon	1530.000	mg/kg	D	J		685.000	mg/kg	D	J
Silver	NA					2.500	mg/kg	D	-
Sodium	101.000	mg/kg	D	U		76.600	mg/kg	D	U
Thallium	0.450	mg/kg	D	U		0.450	mg/kg	D	U
Vanadium	26.300	mg/kg	D	-		25.700	mg/kg	D	-
Zinc	48.400	mg/kg	D	-		59.000	mg/kg	D	-
Volatile Organics									
1,1,1-Trichloroethane	6.000	ug/kg	D	U		6.000	ug/kg	D	U
1,1,2,2-Tetrachloroethane	6.000	ug/kg	D	U		6.000	ug/kg	D	U
1,1,2-Trichloroethane	6.000	ug/kg	D	U		6.000	ug/kg	D	U
1,1-Dichloroethane	6.000	ug/kg	D	U		6.000	ug/kg	D	U
1,1-Dichloroethene	6.000	ug/kg	D	U		6.000	ug/kg	D	U
1,2-Dichloroethane	6.000	ug/kg	D	U		6.000	ug/kg	D	U
1,2-Dichloroethene	6.000	ug/kg	D	U		6.000	ug/kg	D	U
1,2-Dichloropropane	6.000	ug/kg	D	U		6.000	ug/kg	D	U
2-Butanone	11.000	ug/kg	D	UJ		11.000	ug/kg	D	UJ
2-Hexanone	11.000	ug/kg	D	UJ		11.000	ug/kg	D	UJ
4-Methyl-2-pentanone	11.000	ug/kg	D	UJ		11.000	ug/kg	D	UJ
Acetone	5.000	ug/kg	D	J		5.000	ug/kg	D	J

TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1795	1795
SAMPLE NUMBER	067367	067370
SAMPLING DATE	0-1 08/23/91	3-4 08/23/91
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ
<u>Volatile Organics</u>		
Benzene	6.000	ug/kg D U
Bromodichloromethane	6.000	ug/kg D U
Bromoform	6.000	ug/kg D U
Bromomethane	11.000	ug/kg D U
Carbon Tetrachloride	6.000	ug/kg D UJ
Carbon disulfide	6.000	ug/kg D U
Chlorobenzene	6.000	ug/kg D U
Chloroethane	11.000	ug/kg D U
Chloroform	6.000	ug/kg D U
Chloromethane	11.000	ug/kg D U
Dibromochloromethane	6.000	ug/kg D U
Ethylbenzene	6.000	ug/kg D U
Methylene chloride	9.000	ug/kg D UJ
Pyridine	NA	
Styrene	6.000	ug/kg D U
Tetrachloroethene	6.000	ug/kg D U
Toluene	6.000	ug/kg D U
Trichloroethene	6.000	ug/kg D U
Vinyl Acetate	11.000	ug/kg D U
Vinyl chloride	11.000	ug/kg D UJ
Xylenes, Total	6.000	ug/kg D U
cis-1,3-Dichloropropene	6.000	ug/kg D U
trans-1,3-Dichloropropene	6.000	ug/kg D U
<u>Semivolatile Organics</u>		
1,2,4-Trichlorobenzene	390.000	ug/kg D U
1,2-Dichlorobenzene	390.000	ug/kg D U
1,3-Dichlorobenzene	390.000	ug/kg D U
1,4-Dichlorobenzene	NA	
2,4,5-Trichlorophenol	1900.000	ug/kg D U
2,4,6-Trichlorophenol	NA	
2,4-Dichlorophenol	390.000	ug/kg D U
2,4-Dimethylphenol	390.000	ug/kg D U
2,4-Dinitrophenol	1900.000	ug/kg D UJ
2,4-Dinitrotoluene	390.000	ug/kg D U
2,6-Dinitrotoluene	390.000	ug/kg D U
2-Chloronaphthalene	390.000	ug/kg D U
2-Chlorophenol	390.000	ug/kg D U
2-Methylnaphthalene	390.000	ug/kg D U
2-Methylphenol	NA	
2-Nitroaniline	1900.000	ug/kg D U

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TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1795	1795
SAMPLE NUMBER	067367	067370
SAMPLING DATE	0-1 08/23/91	3-4 08/23/91
CHEMICAL PARAMETERS	RESULTS UNITS L VQ	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>		
2-Nitrophenol	390.000 ug/kg D U	380.000 ug/kg D U
3,3'-Dichlorobenzidine	770.000 ug/kg D UJ	760.000 ug/kg D UJ
3-Methylphenol	NA	NA
3-Nitroaniline	1900.000 ug/kg D U	1800.000 ug/kg D U
4,6-Dinitro-2-methylphenol	1900.000 ug/kg D U	1800.000 ug/kg D U
4-Bromophenyl phenyl ether	390.000 ug/kg D U	380.000 ug/kg D U
4-Chloro-3-methylphenol	390.000 ug/kg D U	380.000 ug/kg D U
4-Chlorophenylphenyl ether	390.000 ug/kg D U	380.000 ug/kg D U
4-Methylphenol	NA	380.000 ug/kg D U
4-Nitroaniline	1900.000 ug/kg D U	1800.000 ug/kg D U
4-Nitrophenol	1900.000 ug/kg D U	1800.000 ug/kg D U
Acenaphthene	390.000 ug/kg D U	380.000 ug/kg D U
Acenaphthylene	390.000 ug/kg D U	380.000 ug/kg D U
Anthracene	58.000 ug/kg D J	380.000 ug/kg D U
Benzo(a)anthracene	270.000 ug/kg D J	380.000 ug/kg D U
Benzo(a)pyrene	120.000 ug/kg D J	380.000 ug/kg D U
Benzo(b)fluoranthene	360.000 ug/kg D J	380.000 ug/kg D U
Benzo(g,h,i)perylene	100.000 ug/kg D J	380.000 ug/kg D U
Benzo(k)fluoranthene	390.000 ug/kg D U	380.000 ug/kg D U
Benzoic acid	1900.000 ug/kg D J	1800.000 ug/kg D J
Benzyl alcohol	390.000 ug/kg D U	380.000 ug/kg D U
Butyl benzyl phthalate	390.000 ug/kg D U	380.000 ug/kg D U
Chrysene	300.000 ug/kg D J	380.000 ug/kg D U
Di-n-butyl phthalate	390.000 ug/kg D U	380.000 ug/kg D U
Di-n-octyl phthalate	390.000 ug/kg D U	380.000 ug/kg D U
Dibenzo(a,h)anthracene	390.000 ug/kg D U	380.000 ug/kg D U
Dibenzofuran	390.000 ug/kg D U	380.000 ug/kg D U
Diethyl phthalate	390.000 ug/kg D U	380.000 ug/kg D U
Dimethyl phthalate	390.000 ug/kg D U	380.000 ug/kg D U
Fluoranthene	610.000 ug/kg D -	380.000 ug/kg D U
Fluorene	390.000 ug/kg D U	380.000 ug/kg D U
Hexachlorobenzene	390.000 ug/kg D U	380.000 ug/kg D U
Hexachlorobutadiene	NA	380.000 ug/kg D U
Hexachlorocyclopentadiene	390.000 ug/kg D U	380.000 ug/kg D U
Hexachloroethane	390.000 ug/kg D U	380.000 ug/kg D U
Indeno(1,2,3-cd)pyrene	84.000 ug/kg D J	380.000 ug/kg D U
Isophorone	390.000 ug/kg D U	380.000 ug/kg D U
Methyl parathion	100.000 ug/kg C UJ	100.000 ug/kg C UJ
N-Nitroso-di-n-propylamine	390.000 ug/kg D U	380.000 ug/kg D U
N-Nitrosodiphenylamine	390.000 ug/kg D U	380.000 ug/kg D U
Naphthalene	390.000 ug/kg D U	380.000 ug/kg D U
Nitrobenzene	390.000 ug/kg D U	380.000 ug/kg D U

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000642

TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1795		1795	
SAMPLE NUMBER	067367		067370	
	0-1		3-4	
SAMPLING DATE	08/23/91		08/23/91	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ
<u>Semivolatile Organics</u>				
O,O,O-Triethylphosphorothioate	100.000	ug/kg D UJ	100.000	ug/kg D UJ
Parathion	100.000	ug/kg C UJ	100.000	ug/kg C UJ
Pentachlorophenol	NA		1800.000	ug/kg D U
Phenanthrene	370.000	ug/kg D J	380.000	ug/kg D U
Pheno1	390.000	ug/kg D U	380.000	ug/kg D U
Pyrene	500.000	ug/kg D -	380.000	ug/kg D U
Sulfotep	100.000	ug/kg C UJ	100.000	ug/kg C UJ
bis(2-Chloroethoxy)methane	390.000	ug/kg D U	380.000	ug/kg D U
bis(2-Chloroethyl)ether	390.000	ug/kg D U	380.000	ug/kg D U
bis(2-Chloroisopropyl) ether	390.000	ug/kg D U	380.000	ug/kg D U
bis(2-Ethylhexyl) phthalate	390.000	ug/kg D U	380.000	ug/kg D U
p-Chloroaniline	390.000	ug/kg D U	380.000	ug/kg D U
<u>Pesticide Organics/PCBs</u>				
4,4'-DDD	19.000	ug/kg D U	19.000	ug/kg D U
4,4'-DDE	19.000	ug/kg D U	19.000	ug/kg D U
4,4'-DDT	19.000	ug/kg D U	19.000	ug/kg D U
Aldrin	9.500	ug/kg D U	9.400	ug/kg D U
Aroclor-1016	95.000	ug/kg D U	94.000	ug/kg D U
Aroclor-1221	95.000	ug/kg D U	94.000	ug/kg D U
Aroclor-1232	95.000	ug/kg D U	94.000	ug/kg D U
Aroclor-1242	95.000	ug/kg D U	94.000	ug/kg D U
Aroclor-1248	95.000	ug/kg D U	94.000	ug/kg D U
Aroclor-1254	190.000	ug/kg D U	190.000	ug/kg D U
Aroclor-1260	190.000	ug/kg D U	190.000	ug/kg D U
Chlordane	NA		NA	
Dieldrin	19.000	ug/kg D U	19.000	ug/kg D U
Dimethoate	100.000	ug/kg C UJ	100.000	ug/kg C UJ
Disulfoton	100.000	ug/kg C UJ	100.000	ug/kg C UJ
Endosulfan II	19.000	ug/kg D U	19.000	ug/kg D U
Endosulfan sulfate	19.000	ug/kg D U	19.000	ug/kg D U
Endosulfan-I	9.500	ug/kg D U	9.400	ug/kg D U
Endrin	19.000	ug/kg D U	19.000	ug/kg D U
Endrin ketone	19.000	ug/kg D U	19.000	ug/kg D U
Ethion	100.000	ug/kg C UJ	100.000	ug/kg C UJ
Famphur	100.000	ug/kg C UJ	100.000	ug/kg C UJ

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TABLE F-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1795			1795		
SAMPLE NUMBER	067367			067370		
SAMPLING DATE	0-1 08/23/91			3-4 08/23/91		
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS
<u>Pesticide Organics/PCBs</u>						
Heptachlor	NA				9.400	ug/kg D U
Heptachlor epoxide	9.500	ug/kg	D	U	9.400	ug/kg D U
Methoxychlor	NA				94.000	ug/kg D U
Phorate	100.000	ug/kg	C	UJ	100.000	ug/kg C UJ
Thionazin	100.000	ug/kg	C	UJ	100.000	ug/kg C UJ
Toxaphene	190.000	ug/kg	D	U	190.000	ug/kg D U
alpha-BHC	9.500	ug/kg	D	U	9.400	ug/kg D U
alpha-Chlordane	NA				94.000	ug/kg D U
beta-BHC	9.500	ug/kg	D	U	9.400	ug/kg D U
delta-BHC	9.500	ug/kg	D	U	9.400	ug/kg D U
gamma-BHC (Lindane)	NA				9.400	ug/kg D U
gamma-Chlordane	NA				94.000	ug/kg D U
<u>Dioxin/Furan</u>						
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.190	ug/kg	E	U	0.085	ug/kg E U
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.050	ug/kg	E	U	0.020	ug/kg E U
1,2,3,4,7,8,9-Heptachlorodibenzo-furan	0.070	ug/kg	E	U	0.028	ug/kg E U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.110	ug/kg	E	U	0.200	ug/kg E U
1,2,3,4,7,8-Hexachlorodibenzofuran	0.048	ug/kg	E	U	0.023	ug/kg E U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.090	ug/kg	E	U	0.160	ug/kg E U
1,2,3,6,7,8-Hexachlorodibenzofuran	0.043	ug/kg	E	U	0.020	ug/kg E U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.095	ug/kg	E	U	0.170	ug/kg E U
1,2,3,7,8,9-Hexachlorodibenzofuran	0.055	ug/kg	E	U	0.027	ug/kg E U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.120	ug/kg	E	UJ	0.065	ug/kg E UJ
1,2,3,7,8-Pentachlorodibenzofuran	0.032	ug/kg	E	UJ	0.032	ug/kg E UJ
2,3,4,6,7,8-Hexachlorodibenzo-furan	0.050	ug/kg	E	U	0.024	ug/kg E U
2,3,4,7,8-Pentachlorodibenzofuran	0.035	ug/kg	E	UJ	0.034	ug/kg E UJ
2,3,7,8-TCDD	0.210	ug/kg	E	U	0.490	ug/kg E U
2,3,7,8-TCDF	0.280	ug/kg	E	U	0.600	ug/kg E U
Heptachlorodibenzo-p-dioxin	0.190	ug/kg	E	U	0.085	ug/kg E U
Heptachlorodibenzofuran	0.060	ug/kg	E	U	0.023	ug/kg E U
Hexachlorodibenzo-p-dioxin	0.100	ug/kg	E	U	0.170	ug/kg E U
Hexachlorodibenzofuran	0.049	ug/kg	E	U	0.023	ug/kg E U
Octachlorodibenzo-p-dioxin	2.900	ug/kg	E	J	3.600	ug/kg E J
Octachlorodibenzofuran	0.075	ug/kg	E	UJ	0.023	ug/kg E UJ
Pentachlorodibenzo-p-dioxin	0.120	ug/kg	E	UJ	0.065	ug/kg E UJ
Pentachlorodibenzofuran	0.034	ug/kg	E	UJ	0.033	ug/kg E UJ
Tetrachlorodibenzo-p-dioxin	0.022	ug/kg	E	U	0.095	ug/kg E U
Tetrachlorodibenzofuran	0.027	ug/kg	E	UJ	0.030	ug/kg E UJ

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TABLE F-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	11186 (1973)			11186 (1973)			11186 (1973)		
SAMPLE NUMBER	110413	pc ⁻¹ /g	UJ	112507	pc ⁻¹ /g	-	112514	pc ⁻¹ /g	-
SAMPLING DATE	0.5 - 1			4.5 - 6.5			9.5 - 11		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.651	pc ⁻¹ /g	UJ	0.104	pc ⁻¹ /g	UJ	0.077	pc ⁻¹ /g	UJ
GROSS ALPHA	52.500	pc ⁻¹ /g	-	29.300	pc ⁻¹ /g	-	26.800	pc ⁻¹ /g	-
GROSS BETA	62.600	pc ⁻¹ /g	J	32.100	pc ⁻¹ /g	-	29.800	pc ⁻¹ /g	-
NP-237	0.167	pc ⁻¹ /g	N	0.553	pc ⁻¹ /g	N	0.267	pc ⁻¹ /g	N
PU-238	0.042	pc ⁻¹ /g	J	0.044	pc ⁻¹ /g	J	0.025	pc ⁻¹ /g	J
PU-239/240	0.031	pc ⁻¹ /g	J	0.042	pc ⁻¹ /g	J	0.020	pc ⁻¹ /g	UJ
RA-226	3.010	pc ⁻¹ /g	-	1.990	pc ⁻¹ /g	-	0.948	pc ⁻¹ /g	-
RA-228	1.120	pc ⁻¹ /g	-	1.100	pc ⁻¹ /g	-	0.876	pc ⁻¹ /g	-
RU-106	0.104	pc ⁻¹ /g	UJ	0.712	pc ⁻¹ /g	UJ	0.748	pc ⁻¹ /g	UJ
SR-90	0.382	pc ⁻¹ /g	UJ	0.815	pc ⁻¹ /g	J	0.889	pc ⁻¹ /g	J
TC-99	0.351	pc ⁻¹ /g	UJ	0.386	pc ⁻¹ /g	UJ	0.400	pc ⁻¹ /g	UJ
TH-228	1.050	pc ⁻¹ /g	-	0.991	pc ⁻¹ /g	-	0.875	pc ⁻¹ /g	-
TH-230	3.190	pc ⁻¹ /g	-	2.000	pc ⁻¹ /g	-	1.100	pc ⁻¹ /g	-
TH-232	0.951	pc ⁻¹ /g	-	0.985	pc ⁻¹ /g	-	0.792	pc ⁻¹ /g	-
TH-TOTAL	8.660	mg/kg	-	8.980	mg/kg	-	7.220	mg/kg	-
U-234	9.220	pc ⁻¹ /g	-	6.050	pc ⁻¹ /g	-	2.310	pc ⁻¹ /g	-
U-235/236	0.428	pc ⁻¹ /g	J	0.300	pc ⁻¹ /g	J	0.153	pc ⁻¹ /g	J
U-238	9.320	pc ⁻¹ /g	-	6.610	pc ⁻¹ /g	-	2.730	pc ⁻¹ /g	-
U-TOTAL	29.000	mg/kg	-	1.800	mg/kg	-	17.500	mg/kg	-

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000645

TABLE F-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	11187 (1974)			11187 (1974)			11187 (1974)		
SAMPLE NUMBER	110415	pc1/g	-	112520	pc1/g	-	112526	pc1/g	-
SAMPLING DATE	0.5 - 1 03/24/93			4 - 6 04/13/93			9 - 10.5 04/13/93		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.165	pc1/g	-	0.142	pc1/g	UJ	0.097	pc1/g	UJ
GROSS ALPHA	78.900	pc1/g	-	176.000	pc1/g	-	29.800	pc1/g	-
GROSS BETA	68.000	pc1/g	J	157.000	pc1/g	-	42.300	pc1/g	-
NP-237	0.142	pc1/g	N	0.316	pc1/g	N	6.530	pc1/g	-
PU-238	0.042	pc1/g	J	0.023	pc1/g	-	0.024	pc1/g	J
PU-239/240	0.026	pc1/g	J	0.016	pc1/g	J	0.034	pc1/g	J
RA-226	1.640	pc1/g	-	1.210	pc1/g	-	0.971	pc1/g	-
RA-228	2.230	pc1/g	-	1.540	pc1/g	-	0.934	pc1/g	-
RU-106	0.799	pc1/g	UJ	1.020	pc1/g	UJ	0.694	pc1/g	UJ
SR-90	0.431	pc1/g	UJ	0.494	pc1/g	UJ	0.892	pc1/g	J
TC-99	0.372	pc1/g	UJ	0.407	pc1/g	UJ	0.443	pc1/g	UJ
TH-228	2.090	pc1/g	-	1.280	pc1/g	-	0.745	pc1/g	-
TH-230	3.010	pc1/g	-	2.610	pc1/g	-	1.030	pc1/g	-
TH-232	1.520	pc1/g	-	1.290	pc1/g	-	0.716	pc1/g	-
TH-TOTAL	13.800	mg/kg	-	11.800	mg/kg	-	6.530	mg/kg	-
U-234	29.700	pc1/g	-	98.400	pc1/g	R	3.510	pc1/g	-
U-235/236	1.450	pc1/g	-	4.880	pc1/g	R	0.113	pc1/g	J
U-238	29.300	pc1/g	-	102.500	pc1/g	R	4.550	pc1/g	-
U-TOTAL	91.500	mg/kg	-	297.000	mg/kg	-	12.300	mg/kg	-

F-6-1

000346

TABLE F-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	11188 (1976)			11188 (1976)			1964				
SAMPLE NUMBER	110547	RESULTS	UNITS	VQ	110556	RESULTS	UNITS	VQ	112648		
	4.5 - 6				10 - 11				5 - 6.5		
SAMPLING DATE	04/02/93				04/02/93				04/17/93		
RADIOLOGICAL PARAMETERS											
CS-137	0.117	pc ⁻¹ /g	UJ		0.078	pc ⁻¹ /g	UJ		0.080	pc ⁻¹ /g	UJ
GROSS ALPHA	18.100	pc ⁻¹ /g	-		17.300	pc ⁻¹ /g	-		23.900	pc ⁻¹ /g	-
GROSS BETA	19.500	pc ⁻¹ /g	-		19.200	pc ⁻¹ /g	-		33.800	pc ⁻¹ /g	-
NP-237	0.078	pc ⁻¹ /g	N		0.037	pc ⁻¹ /g	N		0.070	pc ⁻¹ /g	N
PU-238	0.025	pc ⁻¹ /g	J		0.028	pc ⁻¹ /g	UJ		0.050	pc ⁻¹ /g	U
PU-239/240	0.042	pc ⁻¹ /g	UJ		0.015	pc ⁻¹ /g	J		0.030	pc ⁻¹ /g	J
RA-226	1.420	pc ⁻¹ /g	-		0.775	pc ⁻¹ /g	-		1.230	pc ⁻¹ /g	-
RA-228	1.310	pc ⁻¹ /g	-		0.742	pc ⁻¹ /g	-		0.860	pc ⁻¹ /g	-
RU-106	0.843	pc ⁻¹ /g	UJ		0.630	pc ⁻¹ /g	UJ		0.640	pc ⁻¹ /g	UJ
SR-90	2.390	pc ⁻¹ /g	J		0.789	pc ⁻¹ /g	J		0.510	pc ⁻¹ /g	UJ
TC-99	0.390	pc ⁻¹ /g	UJ		0.344	pc ⁻¹ /g	UJ		0.460	pc ⁻¹ /g	UJ
TH-228	0.979	pc ⁻¹ /g	-		0.550	pc ⁻¹ /g	J		0.900	pc ⁻¹ /g	-
TH-230	1.460	pc ⁻¹ /g	-		1.020	pc ⁻¹ /g	-		1.770	pc ⁻¹ /g	-
TH-232	0.975	pc ⁻¹ /g	-		0.548	pc ⁻¹ /g	J		0.760	pc ⁻¹ /g	-
TH-TOTAL	8.880	mg/kg	-		4.990	mg/kg	J		6.920	mg/kg	-
U-234	1.750	pc ⁻¹ /g	-		0.810	pc ⁻¹ /g	-		2.590	pc ⁻¹ /g	-
U-235/236	0.146	pc ⁻¹ /g	J		0.028	pc ⁻¹ /g	-		0.070	pc ⁻¹ /g	J
U-238	1.860	pc ⁻¹ /g	-		0.740	pc ⁻¹ /g	-		2.910	pc ⁻¹ /g	-
U-TOTAL	6.680	mg/kg	J		2.770	mg/kg	U		16.700	mg/kg	J

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0006427

TABLE F-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1964			1965			1965		
SAMPLE NUMBER	112685	pc ^t /g	UJ	112737	pc ^t /g	-	112763	pc ^t /g	UJ
SAMPLING DATE	29 - 30.5			4 - 6			26.5 - 28		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.090	pc ^t /g	UJ	0.105	pc ^t /g	UJ	0.096	pc ^t /g	UJ
GROSS ALPHA	10.200	pc ^t /g	-	15.100	pc ^t /g	-	8.940	pc ^t /g	UJ
GROSS BETA	13.900	pc ^t /g	-	22.300	pc ^t /g	-	22.000	pc ^t /g	-
NP-237	0.040	pc ^t /g	U	0.032	pc ^t /g	N	0.044	pc ^t /g	U
PU-238	0.070	pc ^t /g	U	0.097	pc ^t /g	J	0.035	pc ^t /g	UJ
PU-239/240	0.010	pc ^t /g	U	0.027	pc ^t /g	UJ	0.029	pc ^t /g	UJ
RA-226	0.600	pc ^t /g	-	1.120	pc ^t /g	-	0.676	pc ^t /g	-
RA-228	0.440	pc ^t /g	J	1.120	pc ^t /g	-	0.461	pc ^t /g	J
RU-106	0.880	pc ^t /g	UJ	0.714	pc ^t /g	UJ	0.600	pc ^t /g	UJ
SR-90	0.480	pc ^t /g	UJ	0.443	pc ^t /g	J	0.385	pc ^t /g	UJ
TC-99	0.440	pc ^t /g	UJ	0.385	pc ^t /g	UJ	0.403	pc ^t /g	UJ
TH-228	0.330	pc ^t /g	J	0.750	pc ^t /g	J	0.442	pc ^t /g	R
TH-230	1.370	pc ^t /g	-	2.810	pc ^t /g	J	1.510	pc ^t /g	R
TH-232	0.330	pc ^t /g	J	0.830	pc ^t /g	J	0.862	pc ^t /g	R
TH-TOTAL	3.000	mg/kg	J	7.530	mg/kg	J	7.930	mg/kg	R
U-234	0.570	pc ^t /g	J	3.070	pc ^t /g	-	0.585	pc ^t /g	J
U-235/236	0.020	pc ^t /g	J	0.100	pc ^t /g	J	0.020	pc ^t /g	J
U-238	0.660	pc ^t /g	-	3.040	pc ^t /g	-	0.588	pc ^t /g	J
U-TOTAL	10.300	mg/kg	J	20.600	mg/kg	-	9.810	mg/kg	-

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000648

TABLE F-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1966			1966			1966		
SAMPLE NUMBER	110405	pc ⁻¹ /g	-	112859	pc ⁻¹ /g	-	112883	pc ⁻¹ /g	-
SAMPLING DATE	0.5 - 1 03/24/93			4.5 - 6.5 04/21/93			24 - 25 04/22/93		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.301	pc ⁻¹ /g	-	0.078	pc ⁻¹ /g	UJ	0.094	pc ⁻¹ /g	UJ
GROSS ALPHA	57.600	pc ⁻¹ /g	-	21.700	pc ⁻¹ /g	-	19.100	pc ⁻¹ /g	-
GROSS BETA	103.000	pc ⁻¹ /g	J	46.500	pc ⁻¹ /g	-	34.300	pc ⁻¹ /g	-
NP-237	0.283	pc ⁻¹ /g	N	0.034	pc ⁻¹ /g	R	0.070	pc ⁻¹ /g	N
PU-238	0.052	pc ⁻¹ /g	J	0.018	pc ⁻¹ /g	U	0.039	pc ⁻¹ /g	U
PU-239/240	0.045	pc ⁻¹ /g	J	0.030	pc ⁻¹ /g	UJ	0.030	pc ⁻¹ /g	UJ
RA-226	1.240	pc ⁻¹ /g	-	1.840	pc ⁻¹ /g	-	1.260	pc ⁻¹ /g	-
RA-228	3.380	pc ⁻¹ /g	-	1.150	pc ⁻¹ /g	-	0.913	pc ⁻¹ /g	-
RU-106	8.950	pc ⁻¹ /g	UJ	0.630	pc ⁻¹ /g	UJ	0.930	pc ⁻¹ /g	UJ
SR-90	0.352	pc ⁻¹ /g	UJ	0.861	pc ⁻¹ /g	J	0.963	pc ⁻¹ /g	J
TC-99	0.342	pc ⁻¹ /g	UJ	0.416	pc ⁻¹ /g	UJ	0.377	pc ⁻¹ /g	J
TH-228	2.860	pc ⁻¹ /g	-	0.720	pc ⁻¹ /g	R	1.560	pc ⁻¹ /g	R
TH-230	4.650	pc ⁻¹ /g	-	2.140	pc ⁻¹ /g	R	2.540	pc ⁻¹ /g	R
TH-232	2.860	pc ⁻¹ /g	-	0.810	pc ⁻¹ /g	R	1.100	pc ⁻¹ /g	R
TH-TOTAL	26.000	mg/kg	-	6.560	mg/kg	R	10.100	mg/kg	R
U-234	8.050	pc ⁻¹ /g	-	1.780	pc ⁻¹ /g	-	0.884	pc ⁻¹ /g	-
U-235/236	0.473	pc ⁻¹ /g	J	0.043	pc ⁻¹ /g	J	0.037	pc ⁻¹ /g	J
U-238	10.600	pc ⁻¹ /g	-	1.900	pc ⁻¹ /g	-	1.010	pc ⁻¹ /g	-
U-TOTAL	31.720	mg/kg	-	13.900	mg/kg	-	12.600	mg/kg	-

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000649

TABLE F-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
SAMPLE NUMBER	1967 110362 0.5 - 1 03/22/93			1967 112696 4.5 - 7.5 04/18/93			1967 112731 29.5 - 31 04/19/93		
RADIOLOGICAL PARAMETERS									
CS-137	0.237	pCi/g	-	0.090	pCi/g	UJ	0.073	pCi/g	UJ
GROSS ALPHA	14.600	pCi/g	-	21.400	pCi/g	-	21.900	pCi/g	-
GROSS BETA	39.100	pCi/g	-	27.000	pCi/g	-	22.900	pCi/g	-
NP-237	0.166	pCi/g	N	0.030	pCi/g	U	0.032	pCi/g	U
PU-238	0.096	pCi/g	J	0.110	pCi/g	U	0.035	pCi/g	UJ
PU-239/240	0.133	pCi/g	UJ	0.030	pCi/g	UJ	0.031	pCi/g	UJ
RA-226	1.020	pCi/g	U	1.070	pCi/g	-	1.020	pCi/g	-
RA-228	1.060	pCi/g	-	1.040	pCi/g	-	0.899	pCi/g	-
RU-106	0.591	pCi/g	UJ	0.670	pCi/g	UJ	0.633	pCi/g	UJ
SR-90	0.603	pCi/g	UJ	0.480	pCi/g	UJ	0.441	pCi/g	UJ
TC-99	0.343	pCi/g	UJ	0.400	pCi/g	UJ	0.399	pCi/g	UJ
TH-228	0.731	pCi/g	-	0.740	pCi/g	-	0.995	pCi/g	J
TH-230	1.040	pCi/g	-	4.350	pCi/g	-	1.960	pCi/g	J
TH-232	0.938	pCi/g	-	0.840	pCi/g	-	0.796	pCi/g	J
TH-TOTAL	8.630	mg/kg	-	7.660	mg/kg	-	7.320	mg/kg	J
U-234	2.350	pCi/g	-	2.500	pCi/g	-	0.790	pCi/g	-
U-235/236	0.052	pCi/g	J	0.160	pCi/g	J	0.063	pCi/g	J
U-238	2.360	pCi/g	-	2.560	pCi/g	-	0.859	pCi/g	-
U-TOTAL	7.340	mg/kg	-	15.300	mg/kg	J	9.170	mg/kg	-

F-6-1

000650

TABLE F-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
BORING NUMBER	1968			1968			1968		
SAMPLE NUMBER	110396			112835			112849		
	0.5 - 1			4.5 - 6.5			15.5 - 16.5		
SAMPLING DATE	03/22/93			04/20/93			04/20/93		
RADIOLOGICAL PARAMETERS									
CS-137	0.311	pc ¹ /g	-	0.108	pc ¹ /g	UJ	0.085	pc ¹ /g	UJ
GROSS ALPHA	32.600	pc ¹ /g	-	22.500	pc ¹ /g	-	8.720	pc ¹ /g	-
GROSS BETA	42.000	pc ¹ /g	-	27.800	pc ¹ /g	-	18.000	pc ¹ /g	-
NP-237	0.116	pc ¹ /g	N	0.075	pc ¹ /g	N	0.119	pc ¹ /g	N
PU-238	0.035	pc ¹ /g	UJ	0.103	pc ¹ /g	J	0.020	pc ¹ /g	U
PU-239/240	0.041	pc ¹ /g	U	0.013	pc ¹ /g	U	0.034	pc ¹ /g	UJ
RA-226	1.080	pc ¹ /g	J	1.170	pc ¹ /g	-	0.863	pc ¹ /g	-
RA-228	1.000	pc ¹ /g	-	0.959	pc ¹ /g	-	0.705	pc ¹ /g	-
RU-106	0.708	pc ¹ /g	UJ	0.777	pc ¹ /g	UJ	0.725	pc ¹ /g	UJ
SR-90	0.478	pc ¹ /g	UJ	0.412	pc ¹ /g	UJ	0.371	pc ¹ /g	UJ
TC-99	0.322	pc ¹ /g	UJ	0.396	pc ¹ /g	UJ	0.386	pc ¹ /g	UJ
TH-228	0.850	pc ¹ /g	-	0.915	pc ¹ /g	J	0.524	pc ¹ /g	J
TH-230	1.930	pc ¹ /g	-	1.250	pc ¹ /g	J	0.856	pc ¹ /g	J
TH-232	0.840	pc ¹ /g	-	0.967	pc ¹ /g	J	0.568	pc ¹ /g	J
TH-TOTAL	7.650	mg/kg	-	8.900	mg/kg	J	5.230	mg/kg	J
U-234	9.130	pc ¹ /g	-	1.360	pc ¹ /g	-	0.969	pc ¹ /g	-
U-235/236	0.474	pc ¹ /g	J	0.075	pc ¹ /g	J	0.049	pc ¹ /g	J
U-238	9.410	pc ¹ /g	-	1.710	pc ¹ /g	-	0.993	pc ¹ /g	-
U-TOTAL	30.000	mg/kg	-	14.900	mg/kg	-	12.200	mg/kg	-

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000651

TABLE F-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
BORING NUMBER	1969			1969			1969		
SAMPLE NUMBER	110339			112559			112563		
	0.5 - 1			4.5 - 6			9 - 10.5		
SAMPLING DATE	03/22/93			04/15/93			04/15/93		
RADIOLOGICAL PARAMETERS									
CS-137	0.073	pCi/g	UJ	0.088	pCi/g	UJ	0.080	pCi/g	UJ
GROSS ALPHA	20.400	pCi/g	-	21.500	pCi/g	-	8.900	pCi/g	-
GROSS BETA	33.200	pCi/g	-	21.000	pCi/g	-	19.200	pCi/g	-
NP-237	0.356	pCi/g	N	0.034	pCi/g	N	0.034	pCi/g	N
PU-238	0.068	pCi/g	J	0.064	pCi/g	UJ	0.058	pCi/g	J
PU-239/240	0.083	pCi/g	J	0.064	pCi/g	UJ	0.046	pCi/g	UJ
RA-226	1.250	pCi/g	J	0.918	pCi/g	-	0.927	pCi/g	-
RA-228	1.320	pCi/g	-	0.734	pCi/g	-	0.646	pCi/g	-
RU-106	0.594	pCi/g	UJ	0.703	pCi/g	UJ	0.759	pCi/g	UJ
SR-90	0.508	pCi/g	-	0.650	pCi/g	J	0.666	pCi/g	J
TC-99	0.344	pCi/g	UJ	0.331	pCi/g	UJ	0.346	pCi/g	UJ
TH-228	0.876	pCi/g	-	0.599	pCi/g	R	0.765	pCi/g	R
TH-230	1.310	pCi/g	-	0.871	pCi/g	R	0.781	pCi/g	R
TH-232	0.952	pCi/g	-	0.739	pCi/g	R	0.800	pCi/g	R
TH-TOTAL	8.760	mg/kg	-	6.800	mg/kg	R	7.360	mg/kg	R
U-234	3.240	pCi/g	-	1.440	pCi/g	-	0.643	pCi/g	-
U-235/236	0.241	pCi/g	-	0.077	pCi/g	J	0.020	pCi/g	J
U-238	3.700	pCi/g	-	1.760	pCi/g	-	0.767	pCi/g	-
U-TOTAL	9.850	mg/kg	-	4.820	mg/kg	-	3.470	mg/kg	-

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000652

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TABLE F-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
SAMPLE NUMBER	1970			1970			1971		
	112690			112893			110327		
	4 - 5.5			9 - 10.5			0.5 - 1		
SAMPLING DATE	04/18/93			04/18/93			03/22/93		
RADIOLOGICAL PARAMETERS									
CS-137	0.230	pCi/g	-	0.100	pCi/g	UJ	0.107	pCi/g	UJ
GROSS ALPHA	21.300	pCi/g	-	10.900	pCi/g	UJ	22.900	pCi/g	-
GROSS BETA	27.800	pCi/g	-	19.800	pCi/g	-	36.800	pCi/g	-
NP-237	0.050	pCi/g	U	0.060	pCi/g	U	0.077	pCi/g	N
PU-238	0.280	pCi/g	J	0.160	pCi/g	J	0.016	pCi/g	J
PU-239/240	0.020	pCi/g	UJ	0.010	pCi/g	UJ	0.021	pCi/g	J
RA-226	0.950	pCi/g	-	1.090	pCi/g	-	1.210	pCi/g	J
RA-228	1.080	pCi/g	-	0.920	pCi/g	-	1.180	pCi/g	-
RU-106	0.820	pCi/g	UJ	0.730	pCi/g	UJ	0.838	pCi/g	UJ
SR-90	0.800	pCi/g	J	0.690	pCi/g	J	0.359	pCi/g	UJ
TC-99	0.410	pCi/g	UJ	0.450	pCi/g	UJ	0.357	pCi/g	UJ
TH-228	0.770	pCi/g	-	0.880	pCi/g	-	0.965	pCi/g	-
TH-230	1.550	pCi/g	-	1.320	pCi/g	-	1.520	pCi/g	-
TH-232	0.920	pCi/g	-	0.930	pCi/g	-	0.892	pCi/g	-
TH-TOTAL	8.360	mg/kg	-	8.470	mg/kg	-	8.210	mg/kg	-
U-234	3.680	pCi/g	-	1.060	pCi/g	-	5.050	pCi/g	-
U-235/236	0.130	pCi/g	J	0.030	pCi/g	J	0.261	pCi/g	J
U-238	3.790	pCi/g	-	1.030	pCi/g	-	4.840	pCi/g	-
U-TOTAL	20.400	mg/kg	-	16.200	mg/kg	J	16.700	mg/kg	-

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000653

TABLE F-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1971			1971			1972		
SAMPLE NUMBER	112536	pc1/g	-	112593	pc1/g	-	110382	pc1/g	J
SAMPLING DATE	4.5 - 6.5			9.5 - 11			0.5 - 1		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.080	pc1/g	UJ	0.803	pc1/g	UJ	0.547	pc1/g	-
GROSS ALPHA	17.100	pc1/g	-	16.000	pc1/g	-	267.000	pc1/g	J
GROSS BETA	32.900	pc1/g	-	29.700	pc1/g	-	95.800	pc1/g	J
NP-237	0.039	pc1/g	R	0.029	pc1/g	R	NA		
PU-238	0.034	pc1/g	J	0.035	pc1/g	UJ	0.059	pc1/g	J
PU-239/240	0.034	pc1/g	UJ	0.021	pc1/g	J	0.038	pc1/g	UJ
RA-226	1.250	pc1/g	-	0.900	pc1/g	-	31.200	pc1/g	-
RA-228	1.540	pc1/g	-	0.965	pc1/g	-	2.070	pc1/g	-
RU-106	0.697	pc1/g	UJ	0.794	pc1/g	UJ	1.040	pc1/g	UJ
SR-90	1.360	pc1/g	J	1.780	pc1/g	J	0.460	pc1/g	UJ
TC-99	0.348	pc1/g	UJ	0.336	pc1/g	UJ	0.361	pc1/g	UJ
TH-228	1.230	pc1/g	R	0.920	pc1/g	R	2.150	pc1/g	NV
TH-230	1.550	pc1/g	R	1.290	pc1/g	R	33.800	pc1/g	NV
TH-232	1.120	pc1/g	R	0.747	pc1/g	R	1.980	pc1/g	NV
TH-TOTAL	10.300	mg/kg	R	6.870	mg/kg	R	18.100	mg/kg	NV
U-234	1.070	pc1/g	-	0.949	pc1/g	-	7.480	pc1/g	-
U-235/236	0.056	pc1/g	J	0.043	pc1/g	J	0.287	pc1/g	-
U-238	1.340	pc1/g	-	1.040	pc1/g	-	8.090	pc1/g	-
U-TOTAL	2.580	mg/kg	J	5.680	mg/kg	-	36.200	mg/kg	-

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000654

TABLE F-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1972			1972			1975		
SAMPLE NUMBER	110584	UNITS	VQ	112494	UNITS	VQ	110389	UNITS	VQ
SAMPLING DATE	2.5 - 4			7.5 - 9			0.5 - 1		
RADIOLOGICAL PARAMETERS									
CS-137	0.088	pCi/g	UJ	0.100	pCi/g	UJ	0.110	pCi/g	UJ
GROSS ALPHA	62.700	pCi/g	-	29.000	pCi/g	-	51.400	pCi/g	-
GROSS BETA	51.200	pCi/g	-	26.700	pCi/g	-	45.500	pCi/g	-
NP-237	0.369	pCi/g	N	0.291	pCi/g	N	0.490	pCi/g	R
PU-238	0.025	pCi/g	UJ	0.029	pCi/g	J	0.050	pCi/g	J
PU-239/240	0.025	pCi/g	UJ	0.030	pCi/g	J	0.170	pCi/g	UJ
RA-226	5.140	pCi/g	-	0.870	pCi/g	-	1.510	pCi/g	-
RA-228	1.140	pCi/g	-	0.930	pCi/g	-	1.260	pCi/g	-
RU-106	0.780	pCi/g	UJ	0.850	pCi/g	UJ	0.800	pCi/g	UJ
SR-90	1.280	pCi/g	J	0.400	pCi/g	UJ	0.560	pCi/g	UJ
TC-99	0.365	pCi/g	UJ	0.380	pCi/g	UJ	0.350	pCi/g	UJ
TH-228	0.940	pCi/g	-	0.670	pCi/g	-	0.850	pCi/g	-
TH-230	4.180	pCi/g	-	0.830	pCi/g	-	4.060	pCi/g	-
TH-232	1.000	pCi/g	-	0.600	pCi/g	J	0.780	pCi/g	-
TH-TOTAL	9.100	mg/kg	-	5.430	mg/kg	-	7.190	mg/kg	-
U-234	15.200	pCi/g	-	4.480	pCi/g	-	9.860	pCi/g	-
U-235/236	0.830	pCi/g	-	0.260	pCi/g	J	0.440	pCi/g	J
U-238	15.700	pCi/g	-	5.000	pCi/g	-	10.200	pCi/g	-
U-TOTAL	47.600	mg/kg	-	14.400	mg/kg	-	29.700	mg/kg	-

TABLE F-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1975	1975	1977
SAMPLE NUMBER	112545	112550	110571
SAMPLING DATE	4 - 5 04/13/93	8.5 - 10.5 04/13/93	8.5 - 10 04/06/93
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.116	pCi/g	UJ
GROSS ALPHA	16.900	pCi/g	-
GROSS BETA	32.300	pCi/g	-
NP-237	0.269	pCi/g	N
PU-238	0.049	pCi/g	J
PU-239/240	0.021	pCi/g	J
RA-226	1.260	pCi/g	-
RA-228	1.420	pCi/g	-
RU-106	0.872	pCi/g	UJ
SR-90	1.570	pCi/g	-
TC-99	0.405	pCi/g	UJ
TH-228	1.200	pCi/g	-
TH-230	1.690	pCi/g	-
TH-232	1.170	pCi/g	-
TH-TOTAL	10.700	mg/kg	-
U-234	2.490	pCi/g	-
U-235/236	0.075	pCi/g	J
U-238	2.740	pCi/g	-
U-TOTAL	11.600	mg/kg	-
	0.079	pCi/g	UJ
	13.000	pCi/g	-
	24.000	pCi/g	-
	0.306	pCi/g	N
	0.167	pCi/g	J
	0.022	pCi/g	UJ
	1.120	pCi/g	-
	1.080	pCi/g	-
	0.608	pCi/g	UJ
	0.586	pCi/g	UJ
	0.368	pCi/g	UJ
	0.857	pCi/g	-
	1.100	pCi/g	-
	0.786	pCi/g	-
	7.160	mg/kg	-
	0.977	pCi/g	-
	0.048	pCi/g	J
	1.040	pCi/g	-
	4.820	mg/kg	-
	0.070	pCi/g	J
	28.200	pCi/g	-
	36.500	pCi/g	-
	0.440	pCi/g	N
	0.050	pCi/g	J
	0.030	pCi/g	J
	1.160	pCi/g	-
	0.970	pCi/g	-
	0.810	pCi/g	UJ
	0.460	pCi/g	UJ
	0.400	pCi/g	UJ
	0.910	pCi/g	-
	1.380	pCi/g	-
	0.820	pCi/g	-
	7.430	mg/kg	-
	9.370	pCi/g	-
	0.580	pCi/g	J
	10.400	pCi/g	-
	35.900	mg/kg	-

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TABLE F-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1977			1978			1978		
SAMPLE NUMBER	110579	UNITS	VQ	110406	UNITS	VQ	112584	UNITS	VQ
SAMPLING DATE	16.5 - 18.5			0.5 - 1			9.5 - 11		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.080	pCi/g	UJ	0.098	pCi/g	UJ	0.072	pCi/g	UJ
GROSS ALPHA	19.600	pCi/g	-	23.600	pCi/g	-	18.600	pCi/g	-
GROSS BETA	21.000	pCi/g	-	38.400	pCi/g	J	34.300	pCi/g	-
NP-237	0.112	pCi/g	N	0.219	pCi/g	N	0.046	pCi/g	N
PU-238	0.023	pCi/g	J	0.047	pCi/g	J	0.735	pCi/g	J
PU-239/240	0.011	pCi/g	UJ	0.021	pCi/g	UJ	0.030	pCi/g	UJ
RA-226	0.810	pCi/g	-	1.040	pCi/g	-	1.120	pCi/g	-
RA-228	0.870	pCi/g	-	1.030	pCi/g	-	1.410	pCi/g	-
RU-106	0.640	pCi/g	UJ	0.764	pCi/g	UJ	0.597	pCi/g	UJ
SR-90	0.590	pCi/g	J	0.410	pCi/g	UJ	0.570	pCi/g	J
TC-99	0.360	pCi/g	UJ	0.355	pCi/g	UJ	0.350	pCi/g	UJ
TH-228	0.880	pCi/g	-	0.884	pCi/g	-	1.040	pCi/g	R
TH-230	1.000	pCi/g	-	1.310	pCi/g	-	1.450	pCi/g	R
TH-232	0.820	pCi/g	-	1.000	pCi/g	-	1.080	pCi/g	R
TH-TOTAL	7.500	mg/kg	-	9.130	mg/kg	-	9.940	mg/kg	R
U-234	1.090	pCi/g	-	3.190	pCi/g	-	0.757	pCi/g	-
U-235/236	0.070	pCi/g	J	0.169	pCi/g	J	0.024	pCi/g	J
U-238	0.980	pCi/g	-	3.460	pCi/g	-	0.385	pCi/g	J
U-TOTAL	3.500	mg/kg	J	10.700	mg/kg	-	5.760	mg/kg	-

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000657

TABLE F-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1978	SF-SS-19			TRENCH #1				
SAMPLE NUMBER	112588				113105				
SAMPLING DATE	13.5 - 15 04/16/93			0.5 - 1 03/22/93		0. - 7 05/28/93			
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.085	pCi/g	UJ	0.334	pCi/g	-	0.110	pCi/g	J
GROSS ALPHA	18.700	pCi/g	-	25.600	pCi/g	-	104.000	pCi/g	-
GROSS BETA	20.500	pCi/g	-	33.800	pCi/g	-	91.600	pCi/g	-
NP-237	0.037	pCi/g	R	0.076	pCi/g	N	0.120	pCi/g	N
PU-238	0.018	pCi/g	UJ	0.036	pCi/g	UJ	0.040	pCi/g	J
PU-239/240	0.045	pCi/g	UJ	0.048	pCi/g	J	0.024	pCi/g	UJ
RA-226	0.872	pCi/g	-	1.220	pCi/g	J	1.770	pCi/g	-
RA-228	0.984	pCi/g	-	1.090	pCi/g	-	3.740	pCi/g	-
RU-106	0.792	pCi/g	UJ	0.596	pCi/g	UJ	0.960	pCi/g	UJ
SR-90	0.537	pCi/g	J	0.894	pCi/g	J	0.250	pCi/g	UJ
TC-99	0.367	pCi/g	UJ	0.324	pCi/g	UJ	0.540	pCi/g	UJ
TH-228	0.720	pCi/g	R	0.853	pCi/g	-	2.550	pCi/g	J
TH-230	0.826	pCi/g	R	1.930	pCi/g	-	6.270	pCi/g	J
TH-232	0.814	pCi/g	R	0.839	pCi/g	-	3.180	pCi/g	J
TH-TOTAL	7.490	mg/kg	R	7.720	mg/kg	-	28.900	mg/kg	J
U-234	0.971	pCi/g	-	3.220	pCi/g	-	44.500	pCi/g	-
U-235/236	0.072	pCi/g	J	0.150	pCi/g	J	2.620	pCi/g	-
U-238	0.897	pCi/g	-	3.990	pCi/g	-	46.800	pCi/g	-
U-TOTAL	4.740	mg/kg	-	12.500	mg/kg	-	165.000	mg/kg	-

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TABLE F-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	TRENCH 2 113724			TRENCH 2 113725			TRENCH 4 113722 0 - 3.42 06/16/93					
SAMPLING DATE	06/09/93			06/09/93			RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	NA			NA			0.160	pCi/g	UJ			
GROSS ALPHA	NA			NA			242.000	pCi/g	J			
GROSS BETA	NA			NA			530.000	pCi/g	J			
NP-237	NA			NA			0.050	pCi/g	U			
PU-238	NA			NA			0.030	pCi/g	UJ			
PU-239/240	NA			NA			0.020	pCi/g	UJ			
RA-226	9.210	pCi/g	-	1.200	pCi/g	U	5.760	pCi/g	-			
RA-228	1.650	pCi/g	-	675.000	pCi/g	-	0.740	pCi/g	-			
RU-106	NA			NA			1.350	pCi/g	UJ			
SR-90	NA			NA			0.210	pCi/g	UJ			
TC-99	NA			NA			0.660	pCi/g	UJ			
TH-228	13.400	pCi/g	-	595.000	pCi/g	-	4.960	pCi/g	R			
TH-230	37.600	pCi/g	-	51.600	pCi/g	-	7.700	pCi/g	R			
TH-232	12.900	pCi/g	-	600.000	pCi/g	-	6.130	pCi/g	R			
TH-TOTAL	NA			NA			55.800	mg/kg	R			
U-234	228.000	pCi/g	-	17.700	pCi/g	-	378.000	pCi/g	N			
U-235/236	11.900	pCi/g	-	1.250	pCi/g	-	19.700	pCi/g	N			
U-238	241.000	pCi/g	-	18.000	pCi/g	U	397.000	pCi/g	N			
U-TOTAL	725.000	mg/kg	-	34.000	mg/kg	U	1170.000	mg/kg	-			

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000659

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11186 (1973)			11187 (1974)			11187 (1974)		
SAMPLE NUMBER	110413			110415			112520		
SAMPLING DATE	0.5-1			0.5-1			4-6		
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ	RESULTS	UNITS	L VQ	RESULTS	UNITS	L VQ
<u>Inorganics</u>									
Aluminum	8230.000	mg/kg	C J	8980.000	mg/kg	C J	7340.000	mg/kg	C -
Antimony	1.100	mg/kg	C UJ	1.000	mg/kg	C UJ	1.200	mg/kg	C UJ
Arsenic	9.800	mg/kg	C -	5.700	mg/kg	C -	5.500	mg/kg	C -
Barium	70.400	mg/kg	C -	69.400	mg/kg	C -	58.400	mg/kg	C -
Beryllium	0.820	mg/kg	C -	0.570	mg/kg	C -	0.480	mg/kg	C -
Cadmium	1.100	mg/kg	C U	1.000	mg/kg	C U	1.200	mg/kg	C U
Calcium	107000.000	mg/kg	C J	89600.000	mg/kg	C J	136000.000	mg/kg	C -
Chromium	6.300	mg/kg	C -	10.100	mg/kg	C -	10.500	mg/kg	C -
Cobalt	3.700	mg/kg	C -	7.700	mg/kg	C -	3.300	mg/kg	C -
Copper	8.700	mg/kg	C -	13.500	mg/kg	C -	13.000	mg/kg	C -
Cyanide	0.330	mg/kg	C -	0.120	mg/kg	C -	0.120	mg/kg	C U
Iron	10200.000	mg/kg	C J	15900.000	mg/kg	C J	11500.000	mg/kg	C -
Lead	3.400	mg/kg	C -	12.200	mg/kg	C -	7.100	mg/kg	C J
Magnesium	32400.000	mg/kg	C -	20600.000	mg/kg	C -	39900.000	mg/kg	C -
Manganese	658.000	mg/kg	C J	747.000	mg/kg	C J	465.000	mg/kg	C J
Mercury	0.110	mg/kg	C U	0.110	mg/kg	C U	0.100	mg/kg	C U
Molybdenum	4.400	mg/kg	C UJ	5.000	mg/kg	C J	4.700	mg/kg	C U
Nickel	9.700	mg/kg	C -	14.100	mg/kg	C -	10.500	mg/kg	C -
Potassium	675.000	mg/kg	C -	968.000	mg/kg	C -	1030.000	mg/kg	C -
Selenium	0.450	mg/kg	C U	0.400	mg/kg	C U	0.450	mg/kg	C UJ
Silicon	631.000	mg/kg	C J	530.000	mg/kg	C J	610.000	mg/kg	C J
Silver	2.800	mg/kg	C -	3.900	mg/kg	C -	3.700	mg/kg	C -
Sodium	166.000	mg/kg	C -	130.000	mg/kg	C -	219.000	mg/kg	C -
Thallium	0.450	mg/kg	C U	0.400	mg/kg	C U	0.580	mg/kg	C J
Vanadium	14.400	mg/kg	C -	19.300	mg/kg	C -	15.100	mg/kg	C -
Zinc	23.500	mg/kg	C J	39.100	mg/kg	C J	47.600	mg/kg	C -
<u>Volatile Organics</u>									
1,1,1-Trichloroethane	11.000	ug/kg	C U	12.000	ug/kg	C U	12.000	ug/kg	C U
1,1,2,2-Tetrachloroethane	11.000	ug/kg	C U	12.000	ug/kg	C U	12.000	ug/kg	C U
1,1,2-Trichloroethane	11.000	ug/kg	C U	12.000	ug/kg	C U	12.000	ug/kg	C U
1,1-Dichloroethane	11.000	ug/kg	C U	12.000	ug/kg	C U	12.000	ug/kg	C U
1,1-Dichloroethene	11.000	ug/kg	C U	12.000	ug/kg	C U	12.000	ug/kg	C U
1,2-Dichloroethane	11.000	ug/kg	C U	12.000	ug/kg	C U	12.000	ug/kg	C U
1,2-Dichloroethene	11.000	ug/kg	C U	12.000	ug/kg	C U	12.000	ug/kg	C U
1,2-Dichloropropane	11.000	ug/kg	C U	12.000	ug/kg	C U	12.000	ug/kg	C U
2-Butanone	11.000	ug/kg	C U	12.000	ug/kg	C U	12.000	ug/kg	C U
2-Hexanone	11.000	ug/kg	C UJ	12.000	ug/kg	C UJ	12.000	ug/kg	C U
4-Methyl-2-pentanone	11.000	ug/kg	C U	12.000	ug/kg	C U	12.000	ug/kg	C U
Acetone	11.000	ug/kg	C U	12.000	ug/kg	C U	12.000	ug/kg	C U
Benzene	11.000	ug/kg	C U	12.000	ug/kg	C U	12.000	ug/kg	C U

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11186 (1973)			11187 (1974)			11187 (1974)					
SAMPLE NUMBER	110413			110415			112520					
SAMPLING DATE	0.5-1			0.5-1			4-6					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS			
<u>Volatile Organics</u>												
Bromodichloromethane	11.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Bromoform	11.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Bromomethane	11.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Carbon Tetrachloride	11.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Carbon disulfide	11.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chlorobenzene	11.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloroethane	11.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloroform	11.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloromethane	11.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Dibromochloromethane	11.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Ethylbenzene	11.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Methylene chloride	11.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Styrene	11.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Tetrachloroethene	11.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Toluene	11.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Trichloroethene	11.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Vinyl Acetate	11.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Vinyl chloride	11.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ	12.000	ug/kg	C	U
Xylenes, Total	11.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
cis-1,3-Dichloropropene	11.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
trans-1,3-Dichloropropene	11.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
1,2-Dichlorobenzene	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
1,2-Diphenylhydrazine	390.000	ug/kg	C	UJ	400.000	ug/kg	C	UJ	NA			
1,3-Dichlorobenzene	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
1,4-Dichlorobenzene	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
2,4,5-Trichlorophenol	1900.000	ug/kg	C	U	1900.000	ug/kg	C	U	2000.000	ug/kg	C	U
2,4,6-Trichlorophenol	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
2,4-Dichlorophenol	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
2,4-Dimethylphenol	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
2,4-Dinitrophenol	1900.000	ug/kg	C	UJ	1900.000	ug/kg	C	UJ	2000.000	ug/kg	C	U
2,4-Dinitrotoluene	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
2,6-Dinitrotoluene	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
2-Chloronaphthalene	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
2-Chlorophenol	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
2-Methylnaphthalene	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
2-Methylphenol	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
2-Nitroaniline	1900.000	ug/kg	C	UJ	1900.000	ug/kg	C	UJ	2000.000	ug/kg	C	U
2-Nitrophenol	390.000	ug/kg	C	UJ	400.000	ug/kg	C	UJ	410.000	ug/kg	C	U

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TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11186 (1973)				11187 (1974)				11187 (1974)			
SAMPLE NUMBER	110413				110415				112520			
SAMPLING DATE	0.5-1				0.5-1				4-6			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
3,3'-Dichlorobenzidine	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
3-Nitroaniline	1900.000	ug/kg	C	U	1900.000	ug/kg	C	U	2000.000	ug/kg	C	U
4,6-Dinitro-2-methylphenol	1900.000	ug/kg	C	R	1900.000	ug/kg	C	R	2000.000	ug/kg	C	R
4-Bromophenyl phenyl ether	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
4-Chloro-3-methylphenol	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
4-Chlorophenylphenyl ether	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
4-Methylphenol	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
4-Nitroaniline	1900.000	ug/kg	C	U	1900.000	ug/kg	C	U	2000.000	ug/kg	C	R
4-Nitrophenol	1900.000	ug/kg	C	U	1900.000	ug/kg	C	U	2000.000	ug/kg	C	U
Acenaphthene	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Acenaphthylene	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Anthracene	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Benzo(a)anthracene	57.000	ug/kg	C	J	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Benzo(a)pyrene	51.000	ug/kg	C	J	41.000	ug/kg	C	J	410.000	ug/kg	C	U
Benzo(b)fluoranthene	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Benzo(g,h,i)perylene	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Benzo(k)fluoranthene	57.000	ug/kg	C	J	48.000	ug/kg	C	J	410.000	ug/kg	C	U
Benzoic acid	1900.000	ug/kg	C	UJ	1900.000	ug/kg	C	UJ	2000.000	ug/kg	C	U
Benzyl alcohol	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Butyl benzyl phthalate	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Carbazole	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Chrysene	82.000	ug/kg	C	J	400.000	ug/kg	C	U	410.000	ug/kg	C	U
D1-n-butyl phthalate	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
D1-n-octyl phthalate	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Dibenzo(a,h)anthracene	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Dibenzofuran	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Diethyl phthalate	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Dimethyl phthalate	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Fluoranthenone	130.000	ug/kg	C	J	83.000	ug/kg	C	J	110.000	ug/kg	C	J
Fluorene	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Hexachlorobenzene	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Hexachlorobutadiene	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Hexachlorocyclopentadiene	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Hexachloroethane	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Indeno(1,2,3-cd)pyrene	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Isophorone	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
N-Nitroso-di-n-propylamine	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
N-Nitrosodimethylamine	390.000	ug/kg	C	U	400.000	ug/kg	C	U	NA			
N-Nitrosodiphenylamine	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Naphthalene	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Nitrobenzene	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Pentachlorophenol	1900.000	ug/kg	C	U	1900.000	ug/kg	C	U	2000.000	ug/kg	C	U

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TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11186 (1973)				11187 (1974)				11187 (1974)			
SAMPLE NUMBER	110413				110415				112520			
SAMPLING DATE	0.5-1				0.5-1				4-6			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
Phenanthrene	61.000	ug/kg	C	J	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Phenol	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
Pyrene	120.000	ug/kg	C	J	79.000	ug/kg	C	J	410.000	ug/kg	C	U
Tributyl phosphate	390.000	ug/kg	C	U	400.000	ug/kg	C	U	NA			
bis(2-Chloroethoxy)methane	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
bis(2-Chloroethyl)ether	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
bis(2-Chloroisopropyl) ether	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
bis(2-Ethylhexyl) phthalate	390.000	ug/kg	C	U	55.000	ug/kg	C	J	410.000	ug/kg	C	U
p-Chloroaniline	390.000	ug/kg	C	U	400.000	ug/kg	C	U	410.000	ug/kg	C	U
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	3.900	ug/kg	C	U	4.000	ug/kg	C	U	4.000	ug/kg	C	UJ
4,4'-DDE	3.900	ug/kg	C	U	4.000	ug/kg	C	U	4.000	ug/kg	C	U
4,4'-DDT	3.900	ug/kg	C	U	4.000	ug/kg	C	U	4.000	ug/kg	C	U
Aldrin	2.000	ug/kg	C	U	2.000	ug/kg	C	U	2.100	ug/kg	C	U
Aroclor-1016	39.000	ug/kg	C	U	40.000	ug/kg	C	U	40.000	ug/kg	C	U
Aroclor-1221	79.000	ug/kg	C	U	80.000	ug/kg	C	U	82.000	ug/kg	C	U
Aroclor-1232	39.000	ug/kg	C	U	40.000	ug/kg	C	U	40.000	ug/kg	C	U
Aroclor-1242	39.000	ug/kg	C	U	40.000	ug/kg	C	U	40.000	ug/kg	C	U
Aroclor-1248	39.000	ug/kg	C	U	40.000	ug/kg	C	U	40.000	ug/kg	C	U
Aroclor-1254	82.000	ug/kg	C	U	58.000	ug/kg	C	J	86.000	ug/kg	C	J
Aroclor-1260	39.000	ug/kg	C	U	40.000	ug/kg	C	U	40.000	ug/kg	C	U
Dieldrin	3.900	ug/kg	C	U	4.000	ug/kg	C	U	4.000	ug/kg	C	U
Endosulfan II	3.900	ug/kg	C	U	4.000	ug/kg	C	U	4.000	ug/kg	C	U
Endosulfan sulfate	3.900	ug/kg	C	U	4.000	ug/kg	C	U	4.000	ug/kg	C	U
Endosulfan-I	2.000	ug/kg	C	U	2.000	ug/kg	C	U	2.100	ug/kg	C	U
Endrin	3.900	ug/kg	C	U	4.000	ug/kg	C	U	4.000	ug/kg	C	U
Endrin aldehyde	3.900	ug/kg	C	U	4.000	ug/kg	C	U	4.000	ug/kg	C	U
Endrin ketone	3.900	ug/kg	C	U	4.000	ug/kg	C	U	4.000	ug/kg	C	U
Heptachlor	2.000	ug/kg	C	U	2.000	ug/kg	C	U	2.100	ug/kg	C	U
Heptachlor epoxide	2.000	ug/kg	C	U	2.000	ug/kg	C	U	2.100	ug/kg	C	U
Methoxychlor	20.000	ug/kg	C	U	20.000	ug/kg	C	U	21.000	ug/kg	C	U
Toxaphene	200.000	ug/kg	C	U	200.000	ug/kg	C	U	210.000	ug/kg	C	U
alpha-BHC	2.000	ug/kg	C	U	2.000	ug/kg	C	U	2.100	ug/kg	C	U
alpha-Chlordane	2.000	ug/kg	C	U	2.000	ug/kg	C	U	2.100	ug/kg	C	U
beta-BHC	2.000	ug/kg	C	U	2.000	ug/kg	C	U	2.100	ug/kg	C	U
delta-BHC	2.000	ug/kg	C	U	2.000	ug/kg	C	U	2.100	ug/kg	C	U
gamma-BHC (Lindane)	2.000	ug/kg	C	U	2.000	ug/kg	C	U	2.100	ug/kg	C	U
gamma-Chlordane	2.000	ug/kg	C	U	2.000	ug/kg	C	U	2.100	ug/kg	C	U

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TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11188 (1976)				11186 (1973)				11187 (1974)			
SAMPLE NUMBER	110547				112507				112526			
SAMPLING DATE	4.5-6				4.5-6.5				9-10.5			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Inorganics</u>												
Aluminum	12500.000	mg/kg	C	J	15400.000	mg/kg	C	-	12800.000	mg/kg	D	-
Antimony	1.100	mg/kg	C	UJ	1.300	mg/kg	C	UJ	0.940	mg/kg	D	UJ
Arsenic	7.200	mg/kg	C	-	8.300	mg/kg	C	-	7.300	mg/kg	D	-
Barium	55.500	mg/kg	C	-	93.800	mg/kg	C	-	73.600	mg/kg	D	-
Beryllium	0.560	mg/kg	C	-	0.830	mg/kg	C	-	0.650	mg/kg	D	-
Cadmium	1.100	mg/kg	C	U	1.300	mg/kg	C	U	0.940	mg/kg	D	U
Calcium	7610.000	mg/kg	C	J	14800.000	mg/kg	C	-	73500.000	mg/kg	D	-
Chromium	14.200	mg/kg	C	-	18.900	mg/kg	C	-	16.200	mg/kg	D	-
Cobalt	6.700	mg/kg	C	-	10.000	mg/kg	C	-	6.200	mg/kg	D	-
Copper	15.500	mg/kg	C	-	27.400	mg/kg	C	-	19.800	mg/kg	D	-
Cyanide	0.110	mg/kg	C	U	0.130	mg/kg	C	U	0.120	mg/kg	D	U
Iron	20800.000	mg/kg	C	J	31800.000	mg/kg	C	-	24500.000	mg/kg	D	-
Lead	5.000	mg/kg	C	-	7.800	mg/kg	C	J	9.100	mg/kg	D	J
Magnesium	4690.000	mg/kg	C	-	10600.000	mg/kg	C	-	26800.000	mg/kg	D	-
Manganese	295.000	mg/kg	C	J	768.000	mg/kg	C	J	272.000	mg/kg	D	J
Mercury	0.110	mg/kg	C	U	0.110	mg/kg	C	U	0.110	mg/kg	D	U
Molybdenum	6.200	mg/kg	C	J	8.400	mg/kg	C	-	6.700	mg/kg	D	-
Nickel	15.400	mg/kg	C	-	30.100	mg/kg	C	-	22.000	mg/kg	D	-
Potassium	939.000	mg/kg	C	-	1680.000	mg/kg	C	-	1880.000	mg/kg	D	-
Selenium	0.440	mg/kg	C	U	0.500	mg/kg	C	U	0.450	mg/kg	D	UJ
Silicon	603.000	mg/kg	C	J	673.000	mg/kg	C	J	875.000	mg/kg	D	J
Silver	6.400	mg/kg	C	-	9.600	mg/kg	C	-	7.100	mg/kg	D	-
Sodium	61.900	mg/kg	C	-	106.000	mg/kg	C	-	131.000	mg/kg	D	-
Thallium	0.440	mg/kg	C	U	0.500	mg/kg	C	U	0.450	mg/kg	D	U
Vanadium	32.400	mg/kg	C	-	39.100	mg/kg	C	-	30.100	mg/kg	D	-
Zinc	53.400	mg/kg	C	J	82.300	mg/kg	C	-	58.600	mg/kg	D	-
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
1,1,2,2-Tetrachloroethane	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
1,1,2-Trichloroethane	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
1,1-Dichloroethane	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
1,1-Dichloroethene	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
1,2-Dichloroethane	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
1,2-Dichloroethene	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
1,2-Dichloropropane	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
2-Butanone	11.000	ug/kg	C	UJ	13.000	ug/kg	C	U	12.000	ug/kg	D	U
2-Hexanone	11.000	ug/kg	C	UJ	13.000	ug/kg	C	U	12.000	ug/kg	D	U
4-Methyl-2-pentanone	11.000	ug/kg	C	UJ	13.000	ug/kg	C	U	12.000	ug/kg	D	U
Acetone	4.000	ug/kg	C	J	13.000	ug/kg	C	U	12.000	ug/kg	D	U
Benzene	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11188 (1976)				11186 (1973)				11187 (1974)			
SAMPLE NUMBER	110547				112507				112526			
SAMPLING DATE	4.5-6				4.5-6.5				9-10.5			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
Bromodichloromethane	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
Bromoform	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
Bromomethane	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
Carbon Tetrachloride	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
Carbon disulfide	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
Chlorobenzene	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
Chloroethane	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
Chloroform	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
Chloromethane	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
Dibromochloromethane	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
Ethylbenzene	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
Methylene chloride	27.000	ug/kg	C	U	26.000	ug/kg	C	U	17.000	ug/kg	D	U
Styrene	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
Tetrachloroethene	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
Toluene	41.000	ug/kg	C	-	13.000	ug/kg	C	U	12.000	ug/kg	D	U
Trichloroethene	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
Vinyl Acetate	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
Vinyl chloride	11.000	ug/kg	C	UJ	13.000	ug/kg	C	U	12.000	ug/kg	D	U
Xylenes, Total	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
cis-1,3-Dichloropropene	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
trans-1,3-Dichloropropene	11.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	D	U
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
1,2-Dichlorobenzene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
1,3-Dichlorobenzene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
1,4-Dichlorobenzene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
2,4,5-Trichlorophenol	940.000	ug/kg	C	UJ	2100.000	ug/kg	C	U	2000.000	ug/kg	D	U
2,4,6-Trichlorophenol	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
2,4-Dichlorophenol	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
2,4-Dimethylphenol	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
2,4-Dinitrophenol	940.000	ug/kg	C	UJ	2100.000	ug/kg	C	U	2000.000	ug/kg	D	U
2,4-Dinitrotoluene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
2,6-Dinitrotoluene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
2-Chloronaphthalene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
2-Chlorophenol	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
2-Methylnaphthalene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
2-Methylphenol	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
2-Nitroaniline	940.000	ug/kg	C	UJ	2100.000	ug/kg	C	U	2000.000	ug/kg	D	U
2-Nitrophenol	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
3,3'-Dichlorobenzidine	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	UJ

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TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11188 (1976)				11186 (1973)				11187 (1974)			
SAMPLE NUMBER	110547				112507				112526			
SAMPLING DATE	4.5-6				4.5-6.5				9-10.5			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
3-Nitroaniline	940.000	ug/kg	C	UJ	2100.000	ug/kg	C	U	2000.000	ug/kg	D	U
4,6-Dinitro-2-methylphenol	940.000	ug/kg	C	UJ	2100.000	ug/kg	C	R	2000.000	ug/kg	D	R
4-Bromophenyl phenyl ether	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
4-Chloro-3-methylphenol	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
4-Chlorophenylphenyl ether	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
4-Methylphenol	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
4-Nitroaniline	940.000	ug/kg	C	UJ	2100.000	ug/kg	C	R	2000.000	ug/kg	D	R
4-Nitropheno1	940.000	ug/kg	C	UJ	2100.000	ug/kg	C	U	2000.000	ug/kg	D	U
Acenaphthene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Acenaphthylene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Anthracene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Benzo(a)anthracene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	UJ
Benzo(a)pyrene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Benzo(b)fluoranthene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Benzo(g,h,i)perylene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Benzo(k)fluoranthene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Benzoic acid	1900.000	ug/kg	C	UJ	2100.000	ug/kg	C	U	1900.000	ug/kg	D	U
Benzyl alcohol	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Butyl benzyl phthalate	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	UJ
Carbazole	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Chrysene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	UJ
Di-n-butyl phthalate	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Di-n-octyl phthalate	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Dibenzo(a,h)anthracene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Dibenzo furan	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Diethyl phthalate	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Dimethyl phthalate	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Fluoranthene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Fluorene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Hexachlorobenzene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Hexachlorobutadiene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Hexachlorocyclopentadiene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Hexachloroethane	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Indeno(1,2,3-cd)pyrene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Isophorone	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
N-Nitroso-di-n-propylamine	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
N-Nitrosodiphenylamine	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Naphthalene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Nitrobenzene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Pentachlorophenol	940.000	ug/kg	C	UJ	2100.000	ug/kg	C	U	2000.000	ug/kg	D	U
Phenanthrene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
Phenol	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U

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TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11188 (1976)				11186 (1973)				11187 (1974)			
SAMPLE NUMBER	110547				112507				112526			
SAMPLING DATE	4.5-6				4.5-6.5				9-10.5			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
Pyrene	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	UJ
bis(2-Chloroethoxy)methane	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
bis(2-Chloroethyl)ether	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
bis(2-Chloroisopropyl) ether	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
bis(2-Ethylhexyl) phthalate	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
p-Chloroaniline	390.000	ug/kg	C	UJ	430.000	ug/kg	C	U	400.000	ug/kg	D	U
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	3.900	ug/kg	C	UJ	4.200	ug/kg	C	UJ	4.000	ug/kg	D	UJ
4,4'-DDE	3.900	ug/kg	C	U	4.200	ug/kg	C	U	4.000	ug/kg	D	U
4,4'-DDT	3.900	ug/kg	C	U	4.200	ug/kg	C	U	4.000	ug/kg	D	U
Aldrin	2.000	ug/kg	C	U	2.200	ug/kg	C	U	2.100	ug/kg	D	U
Aroclor-1016	39.000	ug/kg	C	U	42.000	ug/kg	C	U	40.000	ug/kg	D	U
Aroclor-1221	79.000	ug/kg	C	U	86.000	ug/kg	C	U	81.000	ug/kg	D	U
Aroclor-1232	39.000	ug/kg	C	U	42.000	ug/kg	C	U	40.000	ug/kg	D	U
Aroclor-1242	39.000	ug/kg	C	U	42.000	ug/kg	C	U	40.000	ug/kg	D	U
Aroclor-1248	39.000	ug/kg	C	U	42.000	ug/kg	C	U	40.000	ug/kg	D	U
Aroclor-1254	39.000	ug/kg	C	U	42.000	ug/kg	C	U	40.000	ug/kg	D	U
Aroclor-1260	39.000	ug/kg	C	U	42.000	ug/kg	C	U	40.000	ug/kg	D	U
Dieldrin	3.900	ug/kg	C	U	4.200	ug/kg	C	U	4.000	ug/kg	D	U
Endosulfan II	3.900	ug/kg	C	U	4.200	ug/kg	C	U	4.000	ug/kg	D	U
Endosulfan sulfate	3.900	ug/kg	C	U	4.200	ug/kg	C	U	4.000	ug/kg	D	U
Endosulfan-I	2.000	ug/kg	C	U	2.200	ug/kg	C	U	2.100	ug/kg	D	U
Endrin	3.900	ug/kg	C	U	4.200	ug/kg	C	U	4.000	ug/kg	D	U
Endrin aldehyde	3.900	ug/kg	C	U	4.200	ug/kg	C	U	4.000	ug/kg	D	U
Endrin ketone	3.900	ug/kg	C	U	4.200	ug/kg	C	U	4.000	ug/kg	D	U
Heptachlor	2.000	ug/kg	C	U	2.200	ug/kg	C	U	2.100	ug/kg	D	U
Heptachlor epoxide	2.000	ug/kg	C	U	2.200	ug/kg	C	U	2.100	ug/kg	D	U
Methoxychlor	20.000	ug/kg	C	U	22.000	ug/kg	C	U	21.000	ug/kg	D	U
Toxaphene	200.000	ug/kg	C	U	220.000	ug/kg	C	U	210.000	ug/kg	D	U
alpha-BHC	2.000	ug/kg	C	U	2.200	ug/kg	C	U	2.100	ug/kg	D	U
alpha-Chlordane	2.000	ug/kg	C	U	2.200	ug/kg	C	U	2.100	ug/kg	D	U
beta-BHC	2.000	ug/kg	C	U	2.200	ug/kg	C	U	2.100	ug/kg	D	U
delta-BHC	2.000	ug/kg	C	U	2.200	ug/kg	C	U	2.100	ug/kg	D	U
gamma-BHC (Lindane)	2.000	ug/kg	C	U	2.200	ug/kg	C	U	2.100	ug/kg	D	U
gamma-Chlordane	2.000	ug/kg	C	U	2.200	ug/kg	C	U	2.100	ug/kg	D	U

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TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11186 (1973)			11188 (1976)			1964				
SAMPLE NUMBER	112514	RESULTS	UNITS	L	VQ	110556	RESULTS	UNITS	L	VQ	112648
	9.5-11					10-11					5-6.5
SAMPLING DATE	04/12/93					04/02/93					04/17/93
CHEMICAL PARAMETERS											
Inorganics											
Aluminum	11000.000	mg/kg	C	-		4840.000	mg/kg	C	J		20500.000
Antimony	1.200	mg/kg	C	UJ		1.000	mg/kg	C	UJ		1.100
Arsenic	6.300	mg/kg	C	-		9.400	mg/kg	C	-		5.500
Barium	63.500	mg/kg	C	-		107.000	mg/kg	C	-		203.000
Beryllium	0.530	mg/kg	C	-		1.200	mg/kg	C	U		1.000
Cadmium	1.200	mg/kg	C	U		3.100	mg/kg	C	U		1.100
Calcium	79500.000	mg/kg	C	-		213000.000	mg/kg	C	J		10700.000
Chromium	13.400	mg/kg	C	-		6.500	mg/kg	C	-		22.300
Cobalt	8.800	mg/kg	C	-		6.200	mg/kg	C	U		12.600
Copper	20.100	mg/kg	C	-		11.100	mg/kg	C	-		30.800
Cyanide	0.120	mg/kg	C	U		0.130	mg/kg	C	U		0.120
Iron	24000.000	mg/kg	C	-		13300.000	mg/kg	C	J		38400.000
Lead	5.600	mg/kg	C	J		9.000	mg/kg	C	-		17.100
Magnesium	27500.000	mg/kg	C	-		31300.000	mg/kg	C	-		6280.000
Manganese	488.000	mg/kg	C	J		336.000	mg/kg	C	J		1140.000
Mercury	0.120	mg/kg	C	U		0.110	mg/kg	C	U		0.120
Molybdenum	6.900	mg/kg	C	-		12.500	mg/kg	C	UJ		10.000
Nickel	23.000	mg/kg	C	-		12.500	mg/kg	C	U		41.700
Potassium	2060.000	mg/kg	C	-		769.000	mg/kg	C	-		1810.000
Selenium	0.430	mg/kg	C	UJ		0.490	mg/kg	C	UJ		0.440
Silicon	688.000	mg/kg	C	J		462.000	mg/kg	C	J		792.000
Silver	6.900	mg/kg	C	-		6.200	mg/kg	C	U		10.600
Sodium	131.000	mg/kg	C	-		138.000	mg/kg	C	-		131.000
Thallium	0.430	mg/kg	C	-		0.490	mg/kg	C	U		0.440
Vanadium	27.700	mg/kg	C	-		16.200	mg/kg	C	-		47.900
Zinc	59.700	mg/kg	C	-		34.500	mg/kg	C	J		73.700
Volatile Organics											
1,1,1-Trichloroethane	12.000	ug/kg	C	U		12.000	ug/kg	C	U		12.000
1,1,2,2-Tetrachloroethane	12.000	ug/kg	C	U		12.000	ug/kg	C	U		12.000
1,1,2-Trichloroethane	12.000	ug/kg	C	U		12.000	ug/kg	C	U		12.000
1,1-Dichloroethane	12.000	ug/kg	C	U		12.000	ug/kg	C	U		12.000
1,1-Dichloroethene	12.000	ug/kg	C	U		12.000	ug/kg	C	U		12.000
1,2-Dichloroethane	12.000	ug/kg	C	U		12.000	ug/kg	C	U		12.000
1,2-Dichloroethene	12.000	ug/kg	C	U		12.000	ug/kg	C	U		12.000
1,2-Dichloropropane	12.000	ug/kg	C	U		12.000	ug/kg	C	U		12.000
2-Butanone	12.000	ug/kg	C	U		6.000	ug/kg	C	J		12.000
2-Hexanone	12.000	ug/kg	C	U		12.000	ug/kg	C	UJ		12.000
4-Methyl-2-pentanone	12.000	ug/kg	C	U		12.000	ug/kg	C	UJ		12.000
Acetone	12.000	ug/kg	C	U		45.000	ug/kg	C	J		7.000
Benzene	12.000	ug/kg	C	U		12.000	ug/kg	C	U		12.000

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TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11186 (1973)				11188 (1976)				1964			
SAMPLE NUMBER	112514				110556				112648			
SAMPLING DATE	9.5-11				10-11				5-6.5			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
Bromodichloromethane	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Bromoform	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Bromomethane	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	UJ
Carbon Tetrachloride	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Carbon disulfide	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chlorobenzene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloroethane	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloroform	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloromethane	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Dibromochloromethane	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Ethylbenzene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Methylene chloride	16.000	ug/kg	C	U	12.000	ug/kg	C	U	17.000	ug/kg	C	U
Styrene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Tetrachloroethene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Toluene	12.000	ug/kg	C	U	8.000	ug/kg	C	J	3.000	ug/kg	C	J
Trichloroethene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Vinyl Acetate	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	UJ
Vinyl chloride	12.000	ug/kg	C	U	12.000	ug/kg	C	UJ	12.000	ug/kg	C	U
Xylenes, Total	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
cis-1,3-Dichloropropene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
trans-1,3-Dichloropropene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
1,2-Dichlorobenzene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
1,3-Dichlorobenzene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
1,4-Dichlorobenzene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
2,4,5-Trichlorophenol	2100.000	ug/kg	C	U	1000.000	ug/kg	C	UJ	2000.000	ug/kg	C	U
2,4,6-Trichlorophenol	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
2,4-Dichlorophenol	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
2,4-Dimethylphenol	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
2,4-Dinitrophenol	2100.000	ug/kg	C	U	1000.000	ug/kg	C	UJ	2000.000	ug/kg	C	UJ
2,4-Dinitrotoluene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
2,6-Dinitrotoluene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
2-Chloronaphthalene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
2-Chlorophenol	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
2-Methylnaphthalene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
2-Methylphenol	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
2-Nitroaniline	2100.000	ug/kg	C	U	1000.000	ug/kg	C	UJ	2000.000	ug/kg	C	U
2-Nitrophenol	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
3,3'-Dichlorobenzidine	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11186 (1973)				11188 (1976)				1964			
SAMPLE NUMBER	112514	ug/kg	C	U	110556	ug/kg	C	UJ	112648	ug/kg	C	UJ
SAMPLING DATE	9.5-11				10-11				5-6.5			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
3-Nitroaniline	2100.000	ug/kg	C	U	1000.000	ug/kg	C	UJ	2000.000	ug/kg	C	U
4,6-Dinitro-2-methylphenol	2100.000	ug/kg	C	R	1000.000	ug/kg	C	UJ	2000.000	ug/kg	C	UJ
4-Bromophenyl phenyl ether	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
4-Chloro-3-methylphenol	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
4-Chlorophenylphenyl ether	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
4-Methylphenol	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
4-Nitroaniline	2100.000	ug/kg	C	R	1000.000	ug/kg	C	UJ	2000.000	ug/kg	C	U
4-Nitrophenoil	2100.000	ug/kg	C	U	1000.000	ug/kg	C	UJ	2000.000	ug/kg	C	UJ
Acenaphthene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Acenaphthylene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Anthracene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Benzo(a)anthracene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Benzo(a)pyrene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Benzo(b)fluoranthene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Benzo(g,h,i)perylene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Benzo(k)fluoranthene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Benzoic acid	2000.000	ug/kg	C	U	2100.000	ug/kg	C	UJ	2000.000	ug/kg	C	U
Benzyl alcohol	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Butyl benzyl phthalate	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Carbazole	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Chrysene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Di-n-butyl phthalate	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Di-n-octyl phthalate	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Dibenzo(a,h)anthracene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Dibenzofuran	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Diethyl phthalate	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Dimethyl phthalate	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Fluoranthene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Fluorene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Hexachlorobenzene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Hexachlorobutadiene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Hexachlorocyclopentadiene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Hexachloroethane	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Indeno(1,2,3-cd)pyrene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Isophorone	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
N-Nitroso-di-n-propylamine	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
N-Nitrosodiphenylamine	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Naphthalene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Nitrobenzene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Pentachlorophenol	2100.000	ug/kg	C	U	1000.000	ug/kg	C	UJ	2000.000	ug/kg	C	U
Phenanthrene	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U
Phenol	420.000	ug/kg	C	U	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U

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TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11186 (1973)			11188 (1976)			1964		
SAMPLE NUMBER	112514	9.5-11	04/12/93	110556	10-11	04/02/93	112648	5-6.5	04/17/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ	RESULTS	UNITS	L VQ	RESULTS	UNITS	L VQ
<u>Semivolatile Organics</u>									
Pyrene	420.000	ug/kg	C U	430.000	ug/kg	C UJ	420.000	ug/kg	C U
bis(2-Chloroethoxy)methane	420.000	ug/kg	C U	430.000	ug/kg	C UJ	420.000	ug/kg	C U
bis(2-Chloroethyl)ether	420.000	ug/kg	C U	430.000	ug/kg	C UJ	420.000	ug/kg	C U
bis(2-Chloroisopropyl) ether	420.000	ug/kg	C U	430.000	ug/kg	C UJ	420.000	ug/kg	C U
bis(2-Ethylhexyl) phthalate	420.000	ug/kg	C U	430.000	ug/kg	C UJ	420.000	ug/kg	C U
p-Chloroaniline	420.000	ug/kg	C U	430.000	ug/kg	C UJ	420.000	ug/kg	C U
<u>Pesticide Organics/PCBs</u>									
4,4'-DDD	4.300	ug/kg	C UJ	4.200	ug/kg	C UJ	4.100	ug/kg	C U
4,4'-DDE	4.300	ug/kg	C U	4.200	ug/kg	C U	4.100	ug/kg	C U
4,4'-DDT	4.300	ug/kg	C U	4.200	ug/kg	C U	4.100	ug/kg	C U
Aldrin	2.200	ug/kg	C U	2.200	ug/kg	C U	2.100	ug/kg	C U
Aroclor-1016	43.000	ug/kg	C U	42.000	ug/kg	C U	41.000	ug/kg	C U
Aroclor-1221	86.000	ug/kg	C U	85.000	ug/kg	C U	84.000	ug/kg	C U
Aroclor-1232	43.000	ug/kg	C U	42.000	ug/kg	C U	41.000	ug/kg	C U
Aroclor-1242	43.000	ug/kg	C U	42.000	ug/kg	C U	41.000	ug/kg	C U
Aroclor-1248	43.000	ug/kg	C U	42.000	ug/kg	C U	41.000	ug/kg	C U
Aroclor-1254	43.000	ug/kg	C U	42.000	ug/kg	C U	41.000	ug/kg	C U
Aroclor-1260	43.000	ug/kg	C U	42.000	ug/kg	C U	41.000	ug/kg	C U
Dieldrin	4.300	ug/kg	C U	4.200	ug/kg	C U	4.100	ug/kg	C U
Endosulfan II	4.300	ug/kg	C U	4.200	ug/kg	C U	4.100	ug/kg	C U
Endosulfan sulfate	4.300	ug/kg	C U	4.200	ug/kg	C U	4.100	ug/kg	C U
Endosulfan-I	2.200	ug/kg	C U	2.200	ug/kg	C U	2.100	ug/kg	C U
Endrin	4.300	ug/kg	C U	4.200	ug/kg	C U	4.100	ug/kg	C U
Endrin aldehyde	4.300	ug/kg	C U	4.200	ug/kg	C U	4.100	ug/kg	C U
Endrin ketone	4.300	ug/kg	C U	4.200	ug/kg	C U	4.100	ug/kg	C U
Heptachlor	2.200	ug/kg	C U	2.200	ug/kg	C U	2.100	ug/kg	C U
Heptachlor epoxide	2.200	ug/kg	C U	2.200	ug/kg	C U	2.100	ug/kg	C U
Methoxychlor	22.000	ug/kg	C U	22.000	ug/kg	C U	21.000	ug/kg	C U
Toxaphene	220.000	ug/kg	C U	220.000	ug/kg	C U	210.000	ug/kg	C U
alpha-BHC	2.200	ug/kg	C U	2.200	ug/kg	C U	2.100	ug/kg	C U
alpha-Chlordane	2.200	ug/kg	C U	2.200	ug/kg	C U	2.100	ug/kg	C U
beta-BHC	2.200	ug/kg	C U	2.200	ug/kg	C U	2.100	ug/kg	C U
delta-BHC	2.200	ug/kg	C U	2.200	ug/kg	C U	2.100	ug/kg	C U
gamma-BHC (Lindane)	2.200	ug/kg	C U	2.200	ug/kg	C U	2.100	ug/kg	C U
gamma-Chlordane	2.200	ug/kg	C U	2.200	ug/kg	C U	2.100	ug/kg	C U

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TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1964		1965		1965							
SAMPLE NUMBER	112685		112737		112763							
SAMPLING DATE	29-30.5 04/17/93		4-6 04/20/93		26.5-28 04/21/93							
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS							
<u>Inorganics</u>												
Aluminum	2680.000	mg/kg	C	-	9150.000	mg/kg	C	-	2870.000	mg/kg	C	-
Antimony	1.100	mg/kg	C	UJ	1.100	mg/kg	C	UJ	0.840	mg/kg	C	UJ
Arsenic	6.200	mg/kg	C	-	7.500	mg/kg	C	-	4.100	mg/kg	C	-
Barium	15.900	mg/kg	C	-	60.700	mg/kg	C	-	12.800	mg/kg	C	-
Beryllium	0.420	mg/kg	C	U	0.440	mg/kg	C	U	1.000	mg/kg	C	U
Cadmium	1.100	mg/kg	C	U	1.100	mg/kg	C	U	2.500	mg/kg	C	U
Calcium	148000.000	mg/kg	C	-	105000.000	mg/kg	C	-	147000.000	mg/kg	C	-
Chromium	5.000	mg/kg	C	-	10.000	mg/kg	C	-	5.000	mg/kg	C	U
Cobalt	3.000	mg/kg	C	-	6.700	mg/kg	C	-	5.000	mg/kg	C	U
Copper	9.500	mg/kg	C	-	14.400	mg/kg	C	-	8.300	mg/kg	C	-
Cyanide	0.110	mg/kg	C	U	0.110	mg/kg	C	U	0.100	mg/kg	C	U
Iron	7300.000	mg/kg	C	-	18800.000	mg/kg	C	-	7310.000	mg/kg	C	-
Lead	6.400	mg/kg	C	-	13.200	mg/kg	C	-	5.400	mg/kg	C	-
Magnesium	29400.000	mg/kg	C	-	25800.000	mg/kg	C	-	32400.000	mg/kg	C	-
Manganese	344.000	mg/kg	C	-	592.000	mg/kg	C	-	329.000	mg/kg	C	-
Mercury	0.100	mg/kg	C	U	0.170	mg/kg	C	-	0.090	mg/kg	C	U
Molybdenum	4.200	mg/kg	C	U	5.200	mg/kg	C	-	10.100	mg/kg	C	U
Nickel	8.800	mg/kg	C	-	16.800	mg/kg	C	-	10.100	mg/kg	C	U
Potassium	669.000	mg/kg	C	-	1570.000	mg/kg	C	-	520.000	mg/kg	C	-
Selenium	0.420	mg/kg	C	UJ	0.430	mg/kg	C	U	0.360	mg/kg	C	UJ
Silicon	529.000	mg/kg	C	-	720.000	mg/kg	C	-	456.000	mg/kg	C	-
Silver	2.100	mg/kg	C	U	4.500	mg/kg	C	-	5.000	mg/kg	C	U
Sodium	176.000	mg/kg	C	-	159.000	mg/kg	C	-	190.000	mg/kg	C	-
Thallium	0.420	mg/kg	C	U	0.430	mg/kg	C	U	0.360	mg/kg	C	U
Vanadium	10.300	mg/kg	C	-	22.800	mg/kg	C	-	9.800	mg/kg	C	-
Zinc	24.800	mg/kg	C	-	43.200	mg/kg	C	-	27.800	mg/kg	C	-
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	11.000	ug/kg	C	U	11.000	ug/kg	C	U	10.000	ug/kg	C	U
1,1,2,2-Tetrachloroethane	11.000	ug/kg	C	U	11.000	ug/kg	C	U	10.000	ug/kg	C	U
1,1,2-Trichloroethane	11.000	ug/kg	C	U	11.000	ug/kg	C	U	10.000	ug/kg	C	U
1,1-Dichloroethane	11.000	ug/kg	C	U	11.000	ug/kg	C	U	10.000	ug/kg	C	U
1,1-Dichloroethene	11.000	ug/kg	C	U	11.000	ug/kg	C	U	10.000	ug/kg	C	U
1,2-Dichloroethane	11.000	ug/kg	C	U	11.000	ug/kg	C	UJ	10.000	ug/kg	C	U
1,2-Dichloroethene	11.000	ug/kg	C	U	11.000	ug/kg	C	U	10.000	ug/kg	C	U
1,2-Dichloropropane	11.000	ug/kg	C	U	11.000	ug/kg	C	U	10.000	ug/kg	C	U
2-Butanone	1.000	ug/kg	C	J	11.000	ug/kg	C	U	10.000	ug/kg	C	UJ
2-Hexanone	11.000	ug/kg	C	UJ	11.000	ug/kg	C	UJ	10.000	ug/kg	C	UJ
4-Methyl-2-pentanone	11.000	ug/kg	C	U	11.000	ug/kg	C	UJ	10.000	ug/kg	C	UJ
Acetone	11.000	ug/kg	C	UJ	11.000	ug/kg	C	U	10.000	ug/kg	C	U
Benzene	11.000	ug/kg	C	U	11.000	ug/kg	C	U	10.000	ug/kg	C	U

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TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1964	1965	1965			
SAMPLE NUMBER	112685	112737	112763			
SAMPLING DATE	29-30.5 04/17/93	4-6 04/20/93	26.5-28 04/21/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Volatile Organics						
Bromodichloromethane	11.000	ug/kg C U	11.000	ug/kg C U	10.000	ug/kg C U
Bromoform	11.000	ug/kg C U	11.000	ug/kg C U	10.000	ug/kg C U
Bromomethane	11.000	ug/kg C UJ	11.000	ug/kg C UJ	10.000	ug/kg C UJ
Carbon Tetrachloride	11.000	ug/kg C U	11.000	ug/kg C U	10.000	ug/kg C U
Carbon disulfide	11.000	ug/kg C U	11.000	ug/kg C UJ	10.000	ug/kg C U
Chlorobenzene	11.000	ug/kg C U	11.000	ug/kg C U	10.000	ug/kg C U
Chloroethane	11.000	ug/kg C U	11.000	ug/kg C UJ	10.000	ug/kg C UJ
Chloroform	11.000	ug/kg C U	11.000	ug/kg C U	10.000	ug/kg C U
Chloromethane	11.000	ug/kg C U	11.000	ug/kg C UJ	10.000	ug/kg C UJ
Dibromochloromethane	11.000	ug/kg C U	11.000	ug/kg C U	10.000	ug/kg C U
Ethylbenzene	11.000	ug/kg C U	11.000	ug/kg C U	10.000	ug/kg C U
Methylene chloride	19.000	ug/kg C U	11.000	ug/kg C U	10.000	ug/kg C U
Styrene	11.000	ug/kg C U	11.000	ug/kg C U	10.000	ug/kg C U
Tetrachloroethene	11.000	ug/kg C U	11.000	ug/kg C U	10.000	ug/kg C U
Toluene	20.000	ug/kg C -	3.000	ug/kg C J	1.000	ug/kg C J
Trichloroethene	11.000	ug/kg C U	11.000	ug/kg C U	10.000	ug/kg C U
Vinyl Acetate	11.000	ug/kg C UJ	11.000	ug/kg C UJ	10.000	ug/kg C UJ
Vinyl chloride	11.000	ug/kg C U	11.000	ug/kg C U	10.000	ug/kg C U
Xylenes, Total	11.000	ug/kg C U	11.000	ug/kg C U	10.000	ug/kg C U
cis-1,3-Dichloropropene	11.000	ug/kg C U	11.000	ug/kg C U	10.000	ug/kg C U
trans-1,3-Dichloropropene	11.000	ug/kg C U	11.000	ug/kg C U	10.000	ug/kg C U
Semivolatile Organics						
1,2,4-Trichlorobenzene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
1,2-Dichlorobenzene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
1,3-Dichlorobenzene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
1,4-Dichlorobenzene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
2,4,5-Trichlorophenol	1700.000	ug/kg C U	900.000	ug/kg C U	850.000	ug/kg C U
2,4,6-Trichlorophenol	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
2,4-Dichlorophenol	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
2,4-Dimethylphenol	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
2,4-Dinitrophenol	1700.000	ug/kg C UJ	1800.000	ug/kg C UJ	1700.000	ug/kg C R
2,4-Dinitrotoluene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C UJ
2,6-Dinitrotoluene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
2-Benzyl-4-chlorophenol	NA		NA		350.000	ug/kg C U
2-Chloronaphthalene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
2-Chlorophenol	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
2-Methylnaphthalene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
2-Methylphenol	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
2-Nitroaniline	1700.000	ug/kg C U	900.000	ug/kg C U	850.000	ug/kg C U
2-Nitrophenol	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U

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TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1964	1965	1965			
SAMPLE NUMBER	112685	112737	112763			
SAMPLING DATE	29-30.5 04/17/93	4-6 04/20/93	26.5-28 04/21/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Semivolatile Organics						
3,3'-Dichlorobenzidine	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
3-Nitroaniline	1700.000	ug/kg C U	900.000	ug/kg C U	850.000	ug/kg C U
4,6-Dinitro-2-methylphenol	1700.000	ug/kg C UJ	900.000	ug/kg C U	850.000	ug/kg C R
4-Bromophenyl phenyl ether	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
4-Chlorophenylphenyl ether	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
4-Methylphenol	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
4-Nitroaniline	1700.000	ug/kg C U	900.000	ug/kg C U	850.000	ug/kg C U
4-Nitrophenol	1700.000	ug/kg C UJ	900.000	ug/kg C UJ	850.000	ug/kg C UJ
Acenaphthene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Acenaphthylene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Anthracene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Benzo(a)anthracene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Benzo(a)pyrene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Benzo(b)fluoranthene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Benzo(g,h,i)perylene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Benzo(k)fluoranthene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Benzoic acid	1700.000	ug/kg C UJ	1800.000	ug/kg C UJ	1700.000	ug/kg C R
Benzyl alcohol	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Butyl benzyl phthalate	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Carbazole	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Chrysene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Di-n-butyl phthalate	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Di-n-octyl phthalate	350.000	ug/kg C UJ	370.000	ug/kg C U	350.000	ug/kg C U
Dibenzo(a,h)anthracene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Dibenzofuran	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Diethyl phthalate	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Dimethyl phthalate	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Fluoranthene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Fluorene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Hexachlorobenzene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Hexachlorobutadiene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Hexachlorocyclopentadiene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Hexachloroethane	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Indeno(1,2,3-cd)pyrene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Isophorone	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
N-Nitroso-di-n-propylamine	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
N-Nitrosodimethylamine	NA		NA		350.000	ug/kg C U
N-Nitrosodiphenylamine	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Naphthalene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Nitrobenzene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Pentachlorophenol	1700.000	ug/kg C U	900.000	ug/kg C U	850.000	ug/kg C U

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TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1964	1965	1965			
SAMPLE NUMBER	112685	112737	112763			
SAMPLING DATE	29-30.5 04/17/93	4-6 04/20/93	26.5-28 04/21/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Phenanthrene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Phenol	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Pyrene	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
Tributyl phosphate	NA		NA		350.000	ug/kg C U
bis(2-Chloroethoxy)methane	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
bis(2-Chloroethyl)ether	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
bis(2-Chloroisopropyl) ether	350.000	ug/kg C U	370.000	ug/kg C UU	350.000	ug/kg C U
bis(2-Ethylhexyl) phthalate	68.000	ug/kg C J	44.000	ug/kg C J	350.000	ug/kg C U
p-Chloroaniline	350.000	ug/kg C U	370.000	ug/kg C U	350.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	3.600	ug/kg C U	3.700	ug/kg C U	3.500	ug/kg C U
4,4'-DDE	3.600	ug/kg C U	3.700	ug/kg C U	3.500	ug/kg C U
4,4'-DDT	3.600	ug/kg C U	3.700	ug/kg C U	3.500	ug/kg C U
Aldrin	1.800	ug/kg C U	1.900	ug/kg C U	1.800	ug/kg C U
Aroclor-1016	36.000	ug/kg C U	37.000	ug/kg C U	35.000	ug/kg C U
Aroclor-1221	73.000	ug/kg C U	75.000	ug/kg C U	70.000	ug/kg C U
Aroclor-1232	36.000	ug/kg C U	37.000	ug/kg C U	35.000	ug/kg C U
Aroclor-1242	36.000	ug/kg C U	37.000	ug/kg C U	35.000	ug/kg C U
Aroclor-1248	36.000	ug/kg C U	37.000	ug/kg C U	35.000	ug/kg C U
Aroclor-1254	36.000	ug/kg C U	43.000	ug/kg C -	35.000	ug/kg C U
Aroclor-1260	36.000	ug/kg C U	37.000	ug/kg C U	35.000	ug/kg C U
Dieldrin	3.600	ug/kg C U	3.700	ug/kg C U	3.500	ug/kg C U
Endosulfan II	3.600	ug/kg C U	3.700	ug/kg C U	3.500	ug/kg C U
Endosulfan sulfate	3.600	ug/kg C U	3.700	ug/kg C U	3.500	ug/kg C U
Endosulfan-I	1.800	ug/kg C U	1.900	ug/kg C U	1.800	ug/kg C U
Endrin	3.600	ug/kg C U	3.700	ug/kg C U	3.500	ug/kg C U
Endrin aldehyde	3.600	ug/kg C U	3.700	ug/kg C U	3.500	ug/kg C U
Endrin ketone	3.600	ug/kg C U	3.700	ug/kg C U	3.500	ug/kg C U
Heptachlor	1.800	ug/kg C U	1.900	ug/kg C U	1.800	ug/kg C U
Heptachlor epoxide	1.800	ug/kg C U	1.900	ug/kg C U	1.800	ug/kg C U
Methoxychlor	18.000	ug/kg C U	19.000	ug/kg C U	18.000	ug/kg C U
Toxaphene	180.000	ug/kg C U	190.000	ug/kg C U	180.000	ug/kg C U
alpha-BHC	1.800	ug/kg C U	1.900	ug/kg C U	1.800	ug/kg C U
alpha-Chlordane	1.800	ug/kg C U	1.900	ug/kg C U	1.800	ug/kg C U
beta-BHC	1.800	ug/kg C U	1.900	ug/kg C U	1.800	ug/kg C U
delta-BHC	1.800	ug/kg C U	1.900	ug/kg C U	1.800	ug/kg C U
gamma-BHC (Lindane)	1.800	ug/kg C U	1.900	ug/kg C U	1.800	ug/kg C U
gamma-Chlordane	1.800	ug/kg C U	1.900	ug/kg C U	1.800	ug/kg C U

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TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1966	1966	1966	
SAMPLE NUMBER	110405	112859	112883	
SAMPLING DATE	0.5-1 03/24/93	4.5-6.5 04/21/93	24-25 04/22/93	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	
Inorganics				
Aluminum	9880.000	mg/kg C J	17100.000	mg/kg C -
Antimony	1.200	mg/kg C UJ	1.100	mg/kg C UJ
Arsenic	7.000	mg/kg C J	5.300	mg/kg C -
Barium	76.300	mg/kg C -	153.000	mg/kg C -
Beryllium	0.590	mg/kg C -	0.740	mg/kg C -
Cadmium	1.200	mg/kg C U	1.100	mg/kg C U
Calcium	35200.000	mg/kg C J	18200.000	mg/kg C -
Chromium	12.100	mg/kg C -	20.300	mg/kg C -
Cobalt	6.900	mg/kg C -	14.200	mg/kg C -
Copper	18.600	mg/kg C -	23.900	mg/kg C -
Cyanide	0.140	mg/kg C -	0.120	mg/kg C -
Iron	18900.000	mg/kg C J	33300.000	mg/kg C -
Lead	17.600	mg/kg C -	16.000	mg/kg C -
Magnesium	12500.000	mg/kg C -	7320.000	mg/kg C -
Manganese	489.000	mg/kg C J	576.000	mg/kg C U
Mercury	0.120	mg/kg C U	0.110	mg/kg C U
Molybdenum	6.300	mg/kg C J	8.900	mg/kg C -
Nickel	16.700	mg/kg C -	28.000	mg/kg C -
Potassium	1300.000	mg/kg C -	1880.000	mg/kg C -
Selenium	0.480	mg/kg C U	0.490	mg/kg C U
Silicon	781.000	mg/kg C J	562.000	mg/kg C -
Silver	5.300	mg/kg C -	9.500	mg/kg C -
Sodium	91.100	mg/kg C -	136.000	mg/kg C -
Thallium	0.480	mg/kg C U	0.490	mg/kg C U
Vanadium	25.600	mg/kg C -	44.700	mg/kg C -
Zinc	47.500	mg/kg C J	71.800	mg/kg C -
Volatile Organics				
1,1,1-Trichloroethane	13.000	ug/kg C U	12.000	ug/kg C U
1,1,2,2-Tetrachloroethane	13.000	ug/kg C U	12.000	ug/kg C U
1,1,2-Trichloroethane	13.000	ug/kg C U	12.000	ug/kg C U
1,1-Dichloroethane	13.000	ug/kg C U	12.000	ug/kg C U
1,1-Dichloroethene	13.000	ug/kg C U	12.000	ug/kg C U
1,2-Dichloroethane	13.000	ug/kg C U	12.000	ug/kg C U
1,2-Dichloroethene	13.000	ug/kg C U	12.000	ug/kg C U
1,2-Dichloropropane	13.000	ug/kg C U	12.000	ug/kg C U
2-Butanone	13.000	ug/kg C U	12.000	ug/kg C U
2-Hexanone	13.000	ug/kg C UJ	12.000	ug/kg C UJ
4-Methyl-2-pentanone	13.000	ug/kg C U	12.000	ug/kg C U
Acetone	13.000	ug/kg C U	12.000	ug/kg C U
Benzene	13.000	ug/kg C U	12.000	ug/kg C U

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TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1966	1966	1966			
SAMPLE NUMBER	110405	112859	112883			
SAMPLING DATE	0.5-1 03/24/93	4.5-6.5 04/21/93	24-25 04/22/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	13.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Bromoform	13.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Bromomethane	13.000	ug/kg C U	12.000	ug/kg C UJ	12.000	ug/kg C UJ
Carbon Tetrachloride	13.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Carbon disulfide	13.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chlorobenzene	13.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chloroethane	13.000	ug/kg C U	12.000	ug/kg C UJ	12.000	ug/kg C UJ
Chloroform	13.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chloromethane	13.000	ug/kg C U	12.000	ug/kg C UJ	12.000	ug/kg C UJ
Dibromochloromethane	13.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Ethylbenzene	13.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Methylene chloride	13.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Styrene	13.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Tetrachloroethene	13.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Toluene	13.000	ug/kg C U	11.000	ug/kg C U	12.000	ug/kg C U
Trichloroethene	13.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Vinyl Acetate	13.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Vinyl chloride	13.000	ug/kg C UJ	12.000	ug/kg C U	12.000	ug/kg C U
Xylenes, Total	13.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
cis-1,3-Dichloropropene	13.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
trans-1,3-Dichloropropene	13.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	430.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
1,2-Dichlorobenzene	430.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
1,2-Diphenylhydrazine	430.000	ug/kg C UJ	NA		NA	
1,3-Dichlorobenzene	430.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
1,4-Dichlorobenzene	430.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
2,4,5-Trichlorophenol	2100.000	ug/kg C U	1000.000	ug/kg C U	990.000	ug/kg C U
2,4,6-Trichlorophenol	430.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
2,4-Dichlorophenol	430.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
2,4-Dimethylphenol	430.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
2,4-Dinitrophenol	2100.000	ug/kg C UJ	2000.000	ug/kg C R	2000.000	ug/kg C R
2,4-Dinitrotoluene	430.000	ug/kg C U	420.000	ug/kg C UJ	410.000	ug/kg C UJ
2,6-Dinitrotoluene	430.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
2-Benzyl-4-chlorophenol	NA		420.000	ug/kg C U	410.000	ug/kg C U
2-Chloronaphthalene	430.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
2-Chlorophenol	430.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
2-Methylnaphthalene	91.000	ug/kg C J	420.000	ug/kg C U	410.000	ug/kg C U
2-Methylphenol	430.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
2-Nitroaniline	2100.000	ug/kg C UJ	1000.000	ug/kg C U	990.000	ug/kg C U

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TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
2-Nitrophenol	430.000	ug/kg	C	UJ	420.000	ug/kg	C	U	410.000	ug/kg	C	U
3,3'-Dichlorobenzidine	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
3-Nitroaniline	2100.000	ug/kg	C	U	1000.000	ug/kg	C	U	990.000	ug/kg	C	U
4,6-Dinitro-2-methylphenol	2100.000	ug/kg	C	R	1000.000	ug/kg	C	R	990.000	ug/kg	C	R
4-Bromophenyl phenyl ether	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
4-Chloro-3-methylphenol	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
4-Chlorophenylphenyl ether	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
4-Methylphenol	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
4-Nitroaniline	2100.000	ug/kg	C	U	1000.000	ug/kg	C	U	990.000	ug/kg	C	U
4-Nitrophenol	2100.000	ug/kg	C	U	1000.000	ug/kg	C	UJ	990.000	ug/kg	C	UJ
Acenaphthene	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Acenaphthylene	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Anthracene	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Benzo(a)anthracene	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Benzo(a)pyrene	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Benzo(b)fluoranthene	430.000	ug/kg	C	R	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Benzo(g,h,i)perylene	430.000	ug/kg	C	R	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Benzo(k)fluoranthene	430.000	ug/kg	C	R	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Benzoic acid	2100.000	ug/kg	C	UJ	2000.000	ug/kg	C	RJ	2000.000	ug/kg	C	RJ
Benzyl alcohol	430.000	ug/kg	C	UJ	420.000	ug/kg	C	UJ	410.000	ug/kg	C	UJ
Butyl benzyl phthalate	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Carbazole	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Chrysene	53.000	ug/kg	C	J	420.000	ug/kg	C	U	410.000	ug/kg	C	U
D1-n-butyl phthalate	430.000	ug/kg	C	U	51.000	ug/kg	C	U	410.000	ug/kg	C	U
D1-n-octyl phthalate	430.000	ug/kg	C	R	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Dibeno(a,h)anthracene	430.000	ug/kg	C	R	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Dibenzofuran	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Diethyl phthalate	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Dimethyl phthalate	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Fluoranthene	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Fluorene	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Hexachlorobenzene	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Hexachlorobutadiene	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Hexachlorocyclopentadiene	430.000	ug/kg	C	U	420.000	ug/kg	C	UJ	410.000	ug/kg	C	U
Hexachloroethane	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Indeno(1,2,3-cd)pyrene	430.000	ug/kg	C	R	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Isophorone	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
N-Nitroso-di-n-propylamine	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
N-Nitrosodimethylamine	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
N-Nitrosodiphenylamine	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Naphthalene	61.000	ug/kg	C	J	420.000	ug/kg	C	U	410.000	ug/kg	C	U
Nitrobenzene	430.000	ug/kg	C	U	420.000	ug/kg	C	U	410.000	ug/kg	C	U

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TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1966	1966	1966			
SAMPLE NUMBER	110405	112859	112883			
SAMPLING DATE	0.5-1 03/24/93	4.5-6.5 04/21/93	24-25 04/22/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Semivolatile Organics						
Pentachlorophenol	2100.000	ug/kg C U	1000.000	ug/kg C U	990.000	ug/kg C U
Phenanthrene	85.000	ug/kg C J	420.000	ug/kg C U	410.000	ug/kg C U
Phenol	430.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
Pyrene	44.000	ug/kg C J	420.000	ug/kg C U	410.000	ug/kg C U
Tributyl phosphate	430.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
bis(2-Chloroethoxy)methane	430.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
bis(2-Chloroethyl)ether	430.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
bis(2-Chloroisopropyl) ether	430.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
bis(2-Ethylhexyl) phthalate	49.000	ug/kg C R	420.000	ug/kg C U	410.000	ug/kg C U
p-Chloroaniline	430.000	ug/kg C U	420.000	ug/kg C U	410.000	ug/kg C U
Pesticide Organics/PCBs						
4,4'-DDD	4.300	ug/kg C U	4.200	ug/kg C U	4.200	ug/kg C U
4,4'-DDE	4.300	ug/kg C U	4.200	ug/kg C U	4.200	ug/kg C U
4,4'-DDT	4.300	ug/kg C U	4.200	ug/kg C U	4.200	ug/kg C U
Aldrin	2.200	ug/kg C U	2.100	ug/kg C U	2.100	ug/kg C U
Aroclor-1016	43.000	ug/kg C U	42.000	ug/kg C U	42.000	ug/kg C U
Aroclor-1221	87.000	ug/kg C U	85.000	ug/kg C U	84.000	ug/kg C U
Aroclor-1232	43.000	ug/kg C U	42.000	ug/kg C U	42.000	ug/kg C U
Aroclor-1242	43.000	ug/kg C U	42.000	ug/kg C U	42.000	ug/kg C U
Aroclor-1248	43.000	ug/kg C U	42.000	ug/kg C U	42.000	ug/kg C U
Aroclor-1254	43.000	ug/kg C U	42.000	ug/kg C U	42.000	ug/kg C U
Aroclor-1260	43.000	ug/kg C U	42.000	ug/kg C U	42.000	ug/kg C U
Dieldrin	4.300	ug/kg C U	4.200	ug/kg C U	4.200	ug/kg C U
Endosulfan II	4.300	ug/kg C U	4.200	ug/kg C U	4.200	ug/kg C U
Endosulfan sulfate	4.300	ug/kg C U	4.200	ug/kg C U	4.200	ug/kg C U
Endosulfan-I	2.200	ug/kg C U	2.100	ug/kg C U	2.100	ug/kg C U
Endrin	4.300	ug/kg C U	4.200	ug/kg C U	4.200	ug/kg C U
Endrin aldehyde	4.300	ug/kg C U	4.200	ug/kg C U	4.200	ug/kg C U
Endrin ketone	4.300	ug/kg C U	4.200	ug/kg C U	4.200	ug/kg C U
Heptachlor	2.200	ug/kg C U	2.100	ug/kg C U	2.100	ug/kg C U
Heptachlor epoxide	2.200	ug/kg C U	2.100	ug/kg C U	2.100	ug/kg C U
Methoxychlor	22.000	ug/kg C U	21.000	ug/kg C U	21.000	ug/kg C U
Toxaphene	220.000	ug/kg C U	210.000	ug/kg C U	210.000	ug/kg C U
alpha-BHC	2.200	ug/kg C U	2.100	ug/kg C U	2.100	ug/kg C U
alpha-Chlordane	2.200	ug/kg C U	2.100	ug/kg C U	2.100	ug/kg C U
beta-BHC	2.200	ug/kg C U	2.100	ug/kg C U	2.100	ug/kg C U
delta-BHC	2.200	ug/kg C U	2.100	ug/kg C U	2.100	ug/kg C U
gamma-BHC (Lindane)	2.200	ug/kg C U	2.100	ug/kg C U	2.100	ug/kg C U
gamma-Chlordane	2.200	ug/kg C U	2.100	ug/kg C U	2.100	ug/kg C U

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0600073

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1967	1967	1967
SAMPLE NUMBER	110362	112696	112731
SAMPLING DATE	0.5-1 03/22/93	4.5-7.5 04/18/93	29.5-31 04/19/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Inorganics</u>			
Aluminum	8250.000	mg/kg C	-
Antimony	0.880	mg/kg C R	
Arsenic	7.600	mg/kg C	-
Barium	58.100	mg/kg C	-
Beryllium	0.590	mg/kg C	-
Cadmium	0.880	mg/kg C U	
Calcium	91100.000	mg/kg C	-
Chromium	10.400	mg/kg C	-
Cobalt	7.700	mg/kg C	-
Copper	13.900	mg/kg C	-
Cyanide	0.120	mg/kg C U	
Iron	17300.000	mg/kg C	-
Lead	8.000	mg/kg C J	
Magnesium	26200.000	mg/kg C J	
Manganese	553.000	mg/kg C	-
Mercury	0.120	mg/kg C U	
Molybdenum	5.300	mg/kg C	-
Nickel	16.200	mg/kg C	-
Potassium	1370.000	mg/kg C	-
Selenium	0.370	mg/kg C UJ	
Silicon	356.000	mg/kg C J	
Silver	5.200	mg/kg C	-
Sodium	126.000	mg/kg C	-
Thallium	0.370	mg/kg C U	
Vanadium	21.800	mg/kg C	-
Zinc	41.000	mg/kg C	-
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	6.000	ug/kg C U	
1,1,2,2-Tetrachloroethane	6.000	ug/kg C U	
1,1,2-Trichloroethane	6.000	ug/kg C U	
1,1-Dichloroethane	6.000	ug/kg C UJ	
1,1-Dichloroethene	6.000	ug/kg C U	
1,2-Dichloroethane	6.000	ug/kg C U	
1,2-Dichloroethene	6.000	ug/kg C U	
1,2-Dichloropropane	6.000	ug/kg C U	
2-Butanone	12.000	ug/kg C UJ	
2-Hexanone	12.000	ug/kg C U	
4-Methyl-2-pentanone	12.000	ug/kg C U	
Acetone	12.000	ug/kg C U	
Benzene	6.000	ug/kg C U	

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1967	1967	1967			
SAMPLE NUMBER	110362	112696	112731			
SAMPLING DATE	0.5-1 03/22/93	4.5-7.5 04/18/93	29.5-31 04/19/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Volatile Organics						
Bromodichloromethane	6.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Bromoform	6.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Bromomethane	12.000	ug/kg C UJ	12.000	ug/kg C UJ	12.000	ug/kg C UJ
Carbon Tetrachloride	6.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Carbon disulfide	6.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C UJ
Chlorobenzene	6.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chloroethane	12.000	ug/kg C UJ	12.000	ug/kg C U	12.000	ug/kg C UJ
Chloroform	6.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chloromethane	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Dibromochloromethane	6.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Ethylbenzene	6.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Methylene chloride	12.000	ug/kg C UJ	17.000	ug/kg C U	12.000	ug/kg C U
Styrene	6.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Tetrachloroethene	6.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Toluene	6.000	ug/kg C U	39.000	ug/kg C -	2.000	ug/kg C J
Trichloroethene	6.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Vinyl Acetate	12.000	ug/kg C U	12.000	ug/kg C UJ	12.000	ug/kg C UJ
Vinyl chloride	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Xylenes, Total	6.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
cis-1,3-Dichloropropene	6.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
trans-1,3-Dichloropropene	6.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Semivolatile Organics						
1,2,4-Trichlorobenzene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
1,2-Dichlorobenzene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
1,2-Diphenylhydrazine	410.000	ug/kg C U	NA		NA	
1,3-Dichlorobenzene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
1,4-Dichlorobenzene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
2,4,5-Trichlorophenol	1000.000	ug/kg C U	1900.000	ug/kg C U	960.000	ug/kg C U
2,4,6-Trichlorophenol	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
2,4-Dichlorophenol	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
2,4-Dimethylphenol	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
2,4-Dinitrophenol	2000.000	ug/kg C UJ	1900.000	ug/kg C UJ	1900.000	ug/kg C UJ
2,4-Dinitrotoluene	410.000	ug/kg C UJ	390.000	ug/kg C U	400.000	ug/kg C U
2,6-Dinitrotoluene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
2-Chloronaphthalene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
2-Chlorophenol	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
2-Methylnaphthalene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
2-Methylphenol	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
2-Nitroaniline	1000.000	ug/kg C U	1900.000	ug/kg C U	960.000	ug/kg C U
2-Nitrophenol	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U

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000483

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1967	1967	1967			
SAMPLE NUMBER	110362	112696	112731			
SAMPLING DATE	0.5-1 03/22/93	4.5-7.5 04/18/93	29.5-31 04/19/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
3,3'-Dichlorobenzidine	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
3-Nitroaniline	1000.000	ug/kg C U	1900.000	ug/kg C U	960.000	ug/kg C U
4,6-Dinitro-2-methylphenol	1000.000	ug/kg C UJ	1900.000	ug/kg C UJ	960.000	ug/kg C U
4-Bromophenyl phenyl ether	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
4-Chloro-3-methylphenol	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
4-Chlorophenylphenyl ether	410.000	ug/kg C UJ	390.000	ug/kg C U	400.000	ug/kg C U
4-Methylphenol	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
4-Nitroaniline	1000.000	ug/kg C UJ	1900.000	ug/kg C U	960.000	ug/kg C U
4-Nitrophenol	1000.000	ug/kg C UJ	1900.000	ug/kg C UJ	960.000	ug/kg C UJ
Acenaphthene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Acenaphthylene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Anthracene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Benzo(a)anthracene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Benzo(a)pyrene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Benzo(b)fluoranthene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Benzo(g,h,i)perylene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Benzo(k)fluoranthene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Benzoic acid	45.000	ug/kg C J	1900.000	ug/kg C UJ	44.000	ug/kg C J
Benzyl alcohol	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Butyl benzyl phthalate	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Carbazole	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Chrysene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Di-n-butyl phthalate	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Di-n-octyl phthalate	410.000	ug/kg C U	390.000	ug/kg C UJ	400.000	ug/kg C UJ
Dibenzo(a,h)anthracene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Dibenzofuran	410.000	ug/kg C UJ	390.000	ug/kg C U	400.000	ug/kg C U
Diethyl phthalate	410.000	ug/kg C UJ	390.000	ug/kg C U	400.000	ug/kg C U
Dimethyl phthalate	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Fluoranthene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Fluorene	410.000	ug/kg C UJ	390.000	ug/kg C U	400.000	ug/kg C U
Hexachlorobenzene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Hexachlorobutadiene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Hexachlorocyclopentadiene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C UJ
Hexachloroethane	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Indeno(1,2,3-cd)pyrene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Isophorone	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
N-Nitroso-di-n-propylamine	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
N-Nitrosodimethylamine	410.000	ug/kg C U	NA		NA	
N-Nitrosodiphenylamine	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Naphthalene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Nitrobenzene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Pentachlorophenol	1000.000	ug/kg C U	1900.000	ug/kg C U	960.000	ug/kg C U

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1967	1967	1967			
SAMPLE NUMBER	110362	112696	112731			
SAMPLING DATE	0.5-1 03/22/93	4.5-7.5 04/18/93	29.5-31 04/19/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Phenanthrene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Phenol	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Pyrene	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
Tributyl phosphate	410.000	ug/kg C U	NA		NA	
bis(2-Chloroethoxy)methane	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
bis(2-Chloroethyl)ether	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
bis(2-Chloroisopropyl) ether	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
bis(2-Ethylhexyl) phthalate	96.000	ug/kg C J	49.000	ug/kg C J	400.000	ug/kg C U
p-Chloroaniline	410.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	4.100	ug/kg C U	4.000	ug/kg C U	4.000	ug/kg C U
4,4'-DDE	4.100	ug/kg C U	4.000	ug/kg C U	4.000	ug/kg C U
4,4'-DDT	4.100	ug/kg C U	4.000	ug/kg C U	4.000	ug/kg C U
Aldrin	2.100	ug/kg C U	2.000	ug/kg C U	2.100	ug/kg C U
Aroclor-1016	41.000	ug/kg C U	40.000	ug/kg C U	40.000	ug/kg C U
Aroclor-1221	84.000	ug/kg C U	80.000	ug/kg C U	82.000	ug/kg C U
Aroclor-1232	41.000	ug/kg C U	40.000	ug/kg C U	40.000	ug/kg C U
Aroclor-1242	41.000	ug/kg C U	40.000	ug/kg C U	40.000	ug/kg C U
Aroclor-1248	41.000	ug/kg C U	40.000	ug/kg C U	40.000	ug/kg C U
Aroclor-1254	41.000	ug/kg C U	85.000	ug/kg C U	40.000	ug/kg C U
Aroclor-1260	41.000	ug/kg C U	40.000	ug/kg C U	40.000	ug/kg C U
Dieldrin	4.100	ug/kg C U	4.000	ug/kg C U	4.000	ug/kg C U
Endosulfan II	4.100	ug/kg C U	4.000	ug/kg C U	4.000	ug/kg C U
Endosulfan sulfate	4.100	ug/kg C U	4.000	ug/kg C U	4.000	ug/kg C U
Endosulfan-I	2.100	ug/kg C U	2.000	ug/kg C U	2.100	ug/kg C U
Endrin	4.100	ug/kg C U	4.000	ug/kg C U	4.000	ug/kg C U
Endrin aldehyde	4.100	ug/kg C U	4.000	ug/kg C U	4.000	ug/kg C U
Endrin ketone	4.100	ug/kg C U	4.000	ug/kg C U	4.000	ug/kg C U
Heptachlor	2.100	ug/kg C U	2.000	ug/kg C U	2.100	ug/kg C U
Heptachlor epoxide	2.100	ug/kg C U	2.000	ug/kg C U	2.100	ug/kg C U
Methoxychlor	21.000	ug/kg C U	20.000	ug/kg C U	21.000	ug/kg C U
Toxaphene	210.000	ug/kg C U	200.000	ug/kg C U	210.000	ug/kg C U
alpha-BHC	2.100	ug/kg C U	2.000	ug/kg C U	2.100	ug/kg C U
alpha-Chlordane	2.100	ug/kg C U	2.000	ug/kg C U	2.100	ug/kg C U
beta-BHC	2.100	ug/kg C U	2.000	ug/kg C U	2.100	ug/kg C U
delta-BHC	2.100	ug/kg C U	2.000	ug/kg C U	2.100	ug/kg C U
gamma-BHC (Lindane)	2.100	ug/kg C U	2.000	ug/kg C U	2.100	ug/kg C U
gamma-Chlordane	2.100	ug/kg C U	2.000	ug/kg C U	2.100	ug/kg C U

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000E83

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1968	1968	1968	
SAMPLE NUMBER	110396	112835	112849	
SAMPLING DATE	0.5-1 03/22/93	4.5-6.5 04/20/93	15.5-16.5 04/20/93	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	
<u>Inorganics</u>				
Aluminum	6390.000	mg/kg C -	10400.000	mg/kg C -
Antimony	1.100	mg/kg C R	1.200	mg/kg C UJ
Arsenic	2.800	mg/kg C -	3.700	mg/kg C -
Barium	63.600	mg/kg C -	68.500	mg/kg C -
Beryllium	0.580	mg/kg C -	0.470	mg/kg C U
Cadmium	1.100	mg/kg C U	1.200	mg/kg C U
Calcium	37400.000	mg/kg C -	59300.000	mg/kg C -
Chromium	8.500	mg/kg C -	11.500	mg/kg C -
Cobalt	8.800	mg/kg C -	8.300	mg/kg C -
Copper	14.000	mg/kg C -	15.200	mg/kg C -
Cyanide	0.120	mg/kg C U	0.120	mg/kg C U
Iron	13500.000	mg/kg C -	16900.000	mg/kg C -
Lead	6.200	mg/kg C J	13.200	mg/kg C -
Magnesium	10200.000	mg/kg C J	19600.000	mg/kg C -
Manganese	659.000	mg/kg C -	477.000	mg/kg C -
Mercury	0.110	mg/kg C U	0.110	mg/kg C U
Molybdenum	4.600	mg/kg C -	4.700	mg/kg C U
Nickel	13.800	mg/kg C -	16.200	mg/kg C -
Potassium	766.000	mg/kg C -	2480.000	mg/kg C -
Selenium	0.400	mg/kg C UJ	0.480	mg/kg C U
Silicon	594.000	mg/kg C J	679.000	mg/kg C -
Silver	4.000	mg/kg C -	4.400	mg/kg C -
Sodium	92.100	mg/kg C -	118.000	mg/kg C -
Thallium	0.400	mg/kg C U	0.480	mg/kg C U
Vanadium	19.200	mg/kg C -	25.800	mg/kg C -
Zinc	34.400	mg/kg C -	46.300	mg/kg C -
<u>Volatile Organics</u>				
1,1,1-Trichloroethane	6.000	ug/kg C U	12.000	ug/kg C U
1,1,2,2-Tetrachloroethane	6.000	ug/kg C U	12.000	ug/kg C U
1,1,2-Trichloroethane	6.000	ug/kg C U	12.000	ug/kg C U
1,1-Dichloroethane	6.000	ug/kg C UJ	12.000	ug/kg C U
1,1-Dichloroethene	6.000	ug/kg C U	12.000	ug/kg C U
1,2-Dichloroethane	6.000	ug/kg C U	12.000	ug/kg C U
1,2-Dichloroethene	6.000	ug/kg C U	12.000	ug/kg C U
1,2-Dichloropropane	6.000	ug/kg C U	12.000	ug/kg C U
2-Butanone	11.000	ug/kg C UJ	11.000	ug/kg C J
2-Hexanone	11.000	ug/kg C U	12.000	ug/kg C UJ
4-Methyl-2-pentanone	11.000	ug/kg C U	12.000	ug/kg C UJ
Acetone	11.000	ug/kg C U	56.000	ug/kg C -
Benzene	6.000	ug/kg C U	12.000	ug/kg C U

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January 21, 1995

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1968	1968	1968			
SAMPLE NUMBER	110396	112835	112849			
SAMPLING DATE	0.5-1 03/22/93	4.5-6.5 04/20/93	15.5-16.5 04/20/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ
<u>Volatile Organics</u>						
Bromodichloromethane	6.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Bromoform	6.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Bromomethane	11.000	ug/kg C UJ	12.000	ug/kg C UJ	11.000	ug/kg C UJ
Carbon Tetrachloride	6.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Carbon disulfide	6.000	ug/kg C U	12.000	ug/kg C UJ	11.000	ug/kg C UJ
Chlorobenzene	6.000	ug/kg C U	12.000	ug/kg C UJ	11.000	ug/kg C U
Chloroethane	11.000	ug/kg C UJ	12.000	ug/kg C UJ	11.000	ug/kg C UJ
Chloroform	6.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Chloromethane	11.000	ug/kg C U	12.000	ug/kg C UJ	11.000	ug/kg C UJ
Dibromochloromethane	6.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Ethylbenzene	6.000	ug/kg C UJ	12.000	ug/kg C U	11.000	ug/kg C U
Methylene chloride	11.000	ug/kg C UJ	12.000	ug/kg C U	11.000	ug/kg C U
Styrene	6.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Tetrachloroethene	6.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Toluene	6.000	ug/kg C U	4.000	ug/kg C U	52.000	ug/kg C U
Trichloroethene	6.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Vinyl Acetate	11.000	ug/kg C U	12.000	ug/kg C UJ	11.000	ug/kg C UJ
Vinyl chloride	11.000	ug/kg C U	12.000	ug/kg C UJ	11.000	ug/kg C U
Xylenes, Total	6.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
cis-1,3-Dichloropropene	6.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
trans-1,3-Dichloropropene	6.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	400.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
1,2-Dichlorobenzene	400.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
1,2-Diphenylhydrazine	400.000	ug/kg C U	NA		NA	
1,3-Dichlorobenzene	400.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
1,4-Dichlorobenzene	400.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
2,4,5-Trichlorophenol	980.000	ug/kg C U	970.000	ug/kg C U	900.000	ug/kg C U
2,4,6-Trichlorophenol	400.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
2,4-Dichlorophenol	400.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
2,4-Dimethylphenol	400.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
2,4-Dinitrophenol	2000.000	ug/kg C UJ	1900.000	ug/kg C UJ	1800.000	ug/kg C UJ
2,4-Dinitrotoluene	400.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
2,6-Dinitrotoluene	400.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
2-Chloronaphthalene	400.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
2-Chlorophenol	400.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
2-Methylnaphthalene	400.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
2-Methylphenol	400.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
2-Nitroaniline	980.000	ug/kg C U	970.000	ug/kg C U	900.000	ug/kg C U
2-Nitrophenol	400.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U

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000685

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1968	1968	1968
SAMPLE NUMBER	110396	112835	112849
SAMPLING DATE	0.5-1 03/22/93	4.5-6.5 04/20/93	15.5-16.5 04/20/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
3,3'-Dichlorobenzidine	400.000	ug/kg C U	400.000
3-Nitroaniline	980.000	ug/kg C U	970.000
4,6-Dinitro-2-methylphenol	980.000	ug/kg C UJ	970.000
4-Bromophenyl phenyl ether	400.000	ug/kg C U	400.000
4-Chloro-3-methylphenol	400.000	ug/kg C U	400.000
4-Chlorophenylphenyl ether	400.000	ug/kg C U	400.000
4-Methylphenol	400.000	ug/kg C U	400.000
4-Nitroaniline	980.000	ug/kg C U	970.000
4-Nitropheno1	980.000	ug/kg C U	970.000
Acenaphthene	400.000	ug/kg C U	400.000
Acenaphthylenne	400.000	ug/kg C U	400.000
Anthracene	400.000	ug/kg C U	400.000
Benzo(a)anthracene	44.000	ug/kg C UJ	400.000
Benzo(a)pyrene	400.000	ug/kg C U	400.000
Benzo(b)fluoranthene	42.000	ug/kg C U	400.000
Benzo(g,h,i)perylene	400.000	ug/kg C U	400.000
Benzo(k)fluoranthene	400.000	ug/kg C U	400.000
Benzoic acid	2000.000	ug/kg C UJ	1900.000
Benzyl alcohol	400.000	ug/kg C U	400.000
Butyl benzyl phthalate	400.000	ug/kg C U	400.000
Carbazole	400.000	ug/kg C U	400.000
Chrysene	58.000	ug/kg C U	400.000
Di-n-butyl phthalate	400.000	ug/kg C U	400.000
Di-n-octyl phthalate	400.000	ug/kg C U	400.000
Dibenzo(a,h)anthracene	400.000	ug/kg C U	400.000
Dibenzofuran	400.000	ug/kg C U	400.000
Diethyl phthalate	400.000	ug/kg C U	400.000
Dimethyl phthalate	400.000	ug/kg C U	400.000
Fluoranthene	96.000	ug/kg C UJ	400.000
Fluorene	400.000	ug/kg C U	400.000
Hexachlorobenzene	400.000	ug/kg C U	400.000
Hexachlorobutadiene	400.000	ug/kg C U	400.000
Hexachlorocyclopentadiene	400.000	ug/kg C U	400.000
Hexachloroethane	400.000	ug/kg C U	400.000
Indeno(1,2,3-cd)pyrene	400.000	ug/kg C U	400.000
Isophorone	400.000	ug/kg C U	400.000
N-Nitroso-di-n-propylamine	400.000	ug/kg C U	400.000
N-Nitrosodimethylamine	400.000	ug/kg C U	400.000
N-Nitrosodiphenylamine	400.000	ug/kg C U	NA
Naphthalene	400.000	ug/kg C U	400.000
Nitrobenzene	400.000	ug/kg C U	400.000
Pentachlorophenol	980.000	ug/kg C U	970.000

F-6-111

000686

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1968	1968	1968			
SAMPLE NUMBER	110396	112835	112849			
SAMPLING DATE	0.5-1 03/22/93	4.5-6.5 04/20/93	15.5-16.5 04/20/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Phenanthrene	52.000	ug/kg C J	400.000	ug/kg C U	370.000	ug/kg C U
Phenol	400.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
Pyrene	76.000	ug/kg C J	400.000	ug/kg C U	370.000	ug/kg C U
Tributyl phosphate	400.000	ug/kg C U	NA		NA	
bis(2-Chloroethoxy)methane	400.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
bis(2-Chloroethyl)ether	400.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
bis(2-Chloroisopropyl) ether	400.000	ug/kg C U	400.000	ug/kg C UJ	370.000	ug/kg C UJ
bis(2-Ethylhexyl) phthalate	51.000	ug/kg C J	400.000	ug/kg C U	370.000	ug/kg C U
p-Chloroaniline	400.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	4.000	ug/kg C U	3.900	ug/kg C U	3.700	ug/kg C U
4,4'-DDE	4.000	ug/kg C U	3.900	ug/kg C U	3.700	ug/kg C U
4,4'-DDT	4.000	ug/kg C U	3.900	ug/kg C U	3.700	ug/kg C U
Aldrin	2.100	ug/kg C U	2.000	ug/kg C U	1.900	ug/kg C U
Aroclor-1016	40.000	ug/kg C U	39.000	ug/kg C U	37.000	ug/kg C U
Aroclor-1221	82.000	ug/kg C U	80.000	ug/kg C U	76.000	ug/kg C U
Aroclor-1232	40.000	ug/kg C U	39.000	ug/kg C U	37.000	ug/kg C U
Aroclor-1242	40.000	ug/kg C U	39.000	ug/kg C U	37.000	ug/kg C U
Aroclor-1248	40.000	ug/kg C U	39.000	ug/kg C U	37.000	ug/kg C U
Aroclor-1254	40.000	ug/kg C U	39.000	ug/kg C U	37.000	ug/kg C U
Aroclor-1260	40.000	ug/kg C U	39.000	ug/kg C U	37.000	ug/kg C U
Dieldrin	16.000	ug/kg C -	3.900	ug/kg C U	3.700	ug/kg C U
Endosulfan II	4.000	ug/kg C U	3.900	ug/kg C U	3.700	ug/kg C U
Endosulfan sulfate	4.000	ug/kg C U	3.900	ug/kg C U	3.700	ug/kg C U
Endosulfan-I	2.100	ug/kg C U	2.000	ug/kg C U	1.900	ug/kg C U
Endrin	4.000	ug/kg C U	3.900	ug/kg C U	3.700	ug/kg C U
Endrin aldehyde	4.000	ug/kg C U	3.900	ug/kg C U	3.700	ug/kg C U
Endrin ketone	5.300	ug/kg C J	3.900	ug/kg C U	3.700	ug/kg C U
Heptachlor	2.100	ug/kg C U	2.000	ug/kg C U	1.900	ug/kg C U
Heptachlor epoxide	2.100	ug/kg C U	2.000	ug/kg C U	1.900	ug/kg C U
Methoxychlor	21.000	ug/kg C U	20.000	ug/kg C U	19.000	ug/kg C U
Toxaphene	210.000	ug/kg C U	200.000	ug/kg C U	190.000	ug/kg C U
alpha-BHC	2.100	ug/kg C U	2.000	ug/kg C U	1.900	ug/kg C U
alpha-Chlordane	8.000	ug/kg C J	2.000	ug/kg C U	1.900	ug/kg C U
beta-BHC	2.100	ug/kg C U	2.000	ug/kg C U	1.900	ug/kg C U
delta-BHC	2.100	ug/kg C U	2.000	ug/kg C U	1.900	ug/kg C U
gamma-BHC (Lindane)	2.100	ug/kg C U	2.000	ug/kg C U	1.900	ug/kg C U
gamma-Chlordane	7.200	ug/kg C NJ	2.000	ug/kg C U	1.900	ug/kg C U

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000684

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1969	1969	1969	
SAMPLE NUMBER	110339	112559	112563	
SAMPLING DATE	0.5-1 03/22/93	4.5-6 04/15/93	9-10.5 04/15/93	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	
Inorganics				
Aluminum	22800.000	mg/kg C -	4600.000	mg/kg D -
Antimony	1.300	mg/kg C R	1.700	mg/kg D UJ
Arsenic	9.100	mg/kg C -	5.100	mg/kg D -
Barium	124.000	mg/kg C -	32.100	mg/kg D -
Beryllium	2.200	mg/kg C -	0.480	mg/kg D U
Cadmium	1.300	mg/kg C U	1.200	mg/kg D U
Calcium	61500.000	mg/kg C -	112000.000	mg/kg D -
Chromium	13.200	mg/kg C -	6.100	mg/kg D -
Cobalt	4.600	mg/kg C -	5.000	mg/kg D -
Copper	16.000	mg/kg C -	12.300	mg/kg D -
Cyanide	0.130	mg/kg C U	0.120	mg/kg D U
Iron	18500.000	mg/kg C -	13400.000	mg/kg D -
Lead	16.800	mg/kg C J	9.000	mg/kg D -
Magnesium	14400.000	mg/kg C J	41300.000	mg/kg D -
Manganese	911.000	mg/kg C -	606.000	mg/kg D -
Mercury	0.110	mg/kg C U	0.120	mg/kg D U
Molybdenum	5.200	mg/kg C -	4.800	mg/kg D U
Nickel	12.800	mg/kg C -	16.400	mg/kg D -
Potassium	1280.000	mg/kg C -	743.000	mg/kg D -
Selenium	0.460	mg/kg C UJ	0.450	mg/kg D U
Silicon	597.000	mg/kg C J	708.000	mg/kg D -
Silver	5.300	mg/kg C -	3.700	mg/kg D -
Sodium	259.000	mg/kg C -	148.000	mg/kg D U
Thallium	0.460	mg/kg C U	0.450	mg/kg D U
Vanadium	25.000	mg/kg C -	14.000	mg/kg D -
Zinc	42.600	mg/kg C -	31.700	mg/kg D -
Volatile Organics				
1,1,1-Trichloroethane	7.000	ug/kg C U	12.000	ug/kg D U
1,1,2,2-Tetrachloroethane	7.000	ug/kg C U	12.000	ug/kg D U
1,1,2-Trichloroethane	7.000	ug/kg C U	12.000	ug/kg D U
1,1-Dichloroethane	7.000	ug/kg C UJ	12.000	ug/kg D U
1,1-Dichloroethene	7.000	ug/kg C U	12.000	ug/kg D U
1,2-Dichloroethane	7.000	ug/kg C U	12.000	ug/kg D U
1,2-Dichloroethene	7.000	ug/kg C U	12.000	ug/kg D U
1,2-Dichloropropane	7.000	ug/kg C U	12.000	ug/kg D U
2-Butanone	13.000	ug/kg C UJ	12.000	ug/kg D U
2-Hexanone	13.000	ug/kg C U	12.000	ug/kg D UJ
4-Methyl-2-pentanone	13.000	ug/kg C U	12.000	ug/kg D UJ
Acetone	13.000	ug/kg C U	12.000	ug/kg D U
Benzene	7.000	ug/kg C U	12.000	ug/kg D U

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TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1969	1969	1969	
SAMPLE NUMBER	110339	112559	112563	
SAMPLING DATE	0.5-1 03/22/93	4.5-6 04/15/93	9-10.5 04/15/93	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	
<u>Volatile Organics</u>				
Bromodichloromethane	7.000	ug/kg C U	12.000	ug/kg D U
Bromoform	7.000	ug/kg C U	12.000	ug/kg D U
Bromomethane	13.000	ug/kg C UJ	12.000	ug/kg D UJ
Carbon Tetrachloride	7.000	ug/kg C U	12.000	ug/kg D U
Carbon disulfide	7.000	ug/kg C U	12.000	ug/kg D U
Chlorobenzene	7.000	ug/kg C U	12.000	ug/kg D U
Chloroethane	13.000	ug/kg C UJ	12.000	ug/kg D UJ
Chloroform	7.000	ug/kg C U	12.000	ug/kg D U
Chloromethane	13.000	ug/kg C U	12.000	ug/kg D U
Dibromochloromethane	7.000	ug/kg C U	12.000	ug/kg D U
Ethylbenzene	7.000	ug/kg C U	12.000	ug/kg D U
Methylene chloride	13.000	ug/kg C UJ	12.000	ug/kg D U
Styrene	7.000	ug/kg C U	12.000	ug/kg D U
Tetrachloroethene	7.000	ug/kg C U	12.000	ug/kg D U
Toluene	7.000	ug/kg C U	12.000	ug/kg D U
Trichloroethene	7.000	ug/kg C U	12.000	ug/kg D U
Vinyl Acetate	13.000	ug/kg C U	12.000	ug/kg D U
Vinyl chloride	13.000	ug/kg C U	12.000	ug/kg D U
Xylenes, Total	7.000	ug/kg C U	12.000	ug/kg D U
cis-1,3-Dichloropropene	7.000	ug/kg C U	12.000	ug/kg D U
trans-1,3-Dichloropropene	7.000	ug/kg C U	12.000	ug/kg D U
<u>Semivolatile Organics</u>				
1,2,4-Trichlorobenzene	440.000	ug/kg C U	420.000	ug/kg D U
1,2-Dichlorobenzene	440.000	ug/kg C U	420.000	ug/kg D U
1,2-Diphenylhydrazine	440.000	ug/kg C U	NA	NA
1,3-Dichlorobenzene	440.000	ug/kg C U	420.000	ug/kg D U
1,4-Dichlorobenzene	440.000	ug/kg C U	420.000	ug/kg D U
2,4,5-Trichlorophenol	1100.000	ug/kg C U	1000.000	ug/kg D U
2,4,6-Trichlorophenol	440.000	ug/kg C U	420.000	ug/kg D U
2,4-Dichlorophenol	440.000	ug/kg C U	420.000	ug/kg D U
2,4-Dimethylphenol	440.000	ug/kg C U	420.000	ug/kg D U
2,4-Dinitrophenol	2100.000	ug/kg C UJ	1000.000	ug/kg D UJ
2,4-Dinitrotoluene	440.000	ug/kg C U	420.000	ug/kg D U
2,6-Dinitrotoluene	440.000	ug/kg C U	420.000	ug/kg D U
2-Chloronaphthalene	440.000	ug/kg C U	420.000	ug/kg D U
2-Chlorophenol	440.000	ug/kg C U	420.000	ug/kg D U
2-Methylnaphthalene	440.000	ug/kg C U	420.000	ug/kg D U
2-Methylphenol	440.000	ug/kg C U	420.000	ug/kg D U
2-Nitroaniline	1100.000	ug/kg C U	1000.000	ug/kg D U
2-Nitrophenol	440.000	ug/kg C U	420.000	ug/kg D U

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000689

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1969	1969	1969			
SAMPLE NUMBER	110339	112559	112563			
SAMPLING DATE	0.5-1 03/22/93	4.5-6 04/15/93	9-10.5 04/15/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
3,3'-Dichlorobenzidine	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
3-Nitroaniline	1100.000	ug/kg C U	1000.000	ug/kg D U	1000.000	ug/kg C U
4,6-Dinitro-2-methylphenol	1100.000	ug/kg C UJ	1000.000	ug/kg D R	1000.000	ug/kg C R
4-Bromophenyl phenyl ether	440.000	ug/kg C U	420.000	ug/kg D UJ	420.000	ug/kg C UJ
4-Chloro-3-methylphenol	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
4-Chlorophenylphenyl ether	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
4-Methylphenol	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
4-Nitroaniline	1100.000	ug/kg C U	1000.000	ug/kg D R	1000.000	ug/kg C R
4-Nitrophenol	1100.000	ug/kg C U	1000.000	ug/kg D U	1000.000	ug/kg C U
Acenaphthene	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Acenaphthylene	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Anthracene	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Benzo(a)anthracene	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Benzo(a)pyrene	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Benzo(b)fluoranthene	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Benzo(g,h,i)perylene	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Benzo(k)fluoranthene	440.000	ug/kg C U	420.000	ug/kg D UJ	420.000	ug/kg C UJ
Benzoic acid	57.000	ug/kg C J	2000.000	ug/kg D UJ	2000.000	ug/kg C UJ
Benzyl alcohol	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Butyl benzyl phthalate	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Carbazole	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Chrysene	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Di-n-butyl phthalate	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Di-n-octyl phthalate	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Dibenzo(a,h)anthracene	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Dibenzofuran	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Diethyl phthalate	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Dimethyl phthalate	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Fluoranthene	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Fluorene	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Hexachlorobenzene	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Hexachlorobutadiene	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Hexachlorocyclopentadiene	440.000	ug/kg C U	420.000	ug/kg D UJ	420.000	ug/kg C UJ
Hexachloroethane	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Indeno(1,2,3-cd)pyrene	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Isophorone	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
N-Nitroso-di-n-propylamine	440.000	ug/kg C U	420.000	ug/kg D UJ	420.000	ug/kg C UJ
N-Nitrosodimethylamine	440.000	ug/kg C U	NA		NA	
N-Nitrosodiphenylamine	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Naphthalene	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Nitrobenzene	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Pentachlorophenol	1100.000	ug/kg C U	1000.000	ug/kg D UJ	1000.000	ug/kg C UJ

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1969	1969	1969			
SAMPLE NUMBER	110339	112559	112563			
SAMPLING DATE	0.5-1 03/22/93	4.5-6 04/15/93	9-10.5 04/15/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Phenanthrene	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Phenol	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Pyrene	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
Tributyl phosphate	440.000	ug/kg C U	NA		NA	
bis(2-Chloroethoxy)methane	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
bis(2-Chloroethyl)ether	440.000	ug/kg C U	420.000	ug/kg D UJ	420.000	ug/kg C U
bis(2-Chloroisopropyl) ether	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C UJ
bis(2-Ethylhexyl) phthalate	110.000	ug/kg C J	420.000	ug/kg D U	420.000	ug/kg C U
p-Chloroaniline	440.000	ug/kg C U	420.000	ug/kg D U	420.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	4.500	ug/kg C U	4.200	ug/kg D U	NA	
4,4'-DDE	4.500	ug/kg C U	4.200	ug/kg D U	NA	
4,4'-DDT	4.500	ug/kg C U	4.200	ug/kg D U	NA	
Aldrin	2.300	ug/kg C U	2.200	ug/kg D U	NA	
Aroclor-1016	45.000	ug/kg C U	42.000	ug/kg D	NA	
Aroclor-1221	91.000	ug/kg C U	85.000	ug/kg D U	NA	
Aroclor-1232	45.000	ug/kg C U	42.000	ug/kg D U	NA	
Aroclor-1242	45.000	ug/kg C U	42.000	ug/kg D U	NA	
Aroclor-1248	45.000	ug/kg C U	42.000	ug/kg D U	NA	
Aroclor-1254	54.000	ug/kg C -	42.000	ug/kg D U	NA	
Aroclor-1260	45.000	ug/kg C U	42.000	ug/kg D	NA	
Dieldrin	4.500	ug/kg C U	4.200	ug/kg D U	NA	
Endosulfan II	4.500	ug/kg C U	4.200	ug/kg D U	NA	
Endosulfan sulfate	4.500	ug/kg C U	4.200	ug/kg D U	NA	
Endosulfan-I	2.300	ug/kg C U	2.200	ug/kg D U	NA	
Endrin	4.500	ug/kg C U	4.200	ug/kg D U	NA	
Endrin aldehyde	4.500	ug/kg C U	4.200	ug/kg D U	NA	
Endrin ketone	4.500	ug/kg C U	4.200	ug/kg D U	NA	
Heptachlor	2.300	ug/kg C U	2.200	ug/kg D U	NA	
Heptachlor epoxide	2.300	ug/kg C U	2.200	ug/kg D U	NA	
Methoxychlor	23.000	ug/kg C U	22.000	ug/kg D U	NA	
Toxaphene	230.000	ug/kg C U	220.000	ug/kg D U	NA	
alpha-BHC	2.300	ug/kg C U	2.200	ug/kg D U	NA	
alpha-Chlordane	2.300	ug/kg C U	2.200	ug/kg D U	NA	
beta-BHC	2.300	ug/kg C U	2.200	ug/kg D U	NA	
delta-BHC	2.300	ug/kg C U	2.200	ug/kg D U	NA	
gamma-BHC (Lindane)	2.300	ug/kg C U	2.200	ug/kg D U	NA	
gamma-Chlordane	2.300	ug/kg C U	2.200	ug/kg D U	NA	

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000691

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1970	1970	1971
SAMPLE NUMBER	112690	112893	110327
SAMPLING DATE	4-5-5 04/18/93	9-10-5 04/18/93	0.5-1 03/22/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Inorganics</u>			
Aluminum	10600.000	mg/kg C -	14300.000
Antimony	1.200	mg/kg C UJ	1.200
Arsenic	7.100	mg/kg C -	7.100
Barium	100.000	mg/kg C -	119.000
Beryllium	0.480	mg/kg C -	0.650
Cadmium	1.200	mg/kg C UJ	1.200
Calcium	104000.000	mg/kg C -	33100.000
Chromium	16.200	mg/kg C -	15.800
Cobalt	5.800	mg/kg C -	7.100
Copper	34.200	mg/kg C -	18.000
Cyanide	0.120	mg/kg C -	0.130
Iron	28200.000	mg/kg C -	23200.000
Lead	40.000	mg/kg C -	12.800
Magnesium	21000.000	mg/kg C -	12900.000
Manganese	549.000	mg/kg C -	448.000
Mercury	0.110	mg/kg C -	0.120
Molybdenum	9.800	mg/kg C -	5.200
Nickel	20.800	mg/kg C -	18.400
Potassium	1450.000	mg/kg C -	1340.000
Selenium	0.370	mg/kg C UJ	0.460
Silicon	996.000	mg/kg C -	666.000
Silver	7.000	mg/kg C -	6.000
Sodium	151.000	mg/kg C UJ	116.000
Thallium	0.370	mg/kg C -	0.460
Vanadium	29.600	mg/kg C -	34.200
Zinc	81.700	mg/kg C -	57.000
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	12.000	ug/kg C UJ	13.000
1,1,2,2-Tetrachloroethane	12.000	ug/kg C UJ	13.000
1,1,2-Trichloroethane	12.000	ug/kg C UJ	13.000
1,1-Dichloroethane	12.000	ug/kg C UJ	13.000
1,1-Dichloroethene	12.000	ug/kg C UJ	13.000
1,2-Dichloroethane	12.000	ug/kg C UJ	13.000
1,2-Dichloroethene	12.000	ug/kg C UJ	13.000
1,2-Dichloropropane	12.000	ug/kg C UJ	13.000
2-Butanone	12.000	ug/kg C UJ	13.000
2-Hexanone	12.000	ug/kg C UJ	13.000
4-Methyl-2-pentanone	12.000	ug/kg C UJ	13.000
Acetone	12.000	ug/kg C UJ	5.000
Benzene	12.000	ug/kg C UJ	13.000

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000692

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1970	1970	1971			
SAMPLE NUMBER	112690	112893	110327			
SAMPLING DATE	4-5-5 04/18/93	9-10-5 04/18/93	0.5-1 03/22/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	12.000	ug/kg C U	13.000	ug/kg C U	6.000	ug/kg C U
Bromoform	12.000	ug/kg C U	13.000	ug/kg C U	6.000	ug/kg C U
Bromomethane	12.000	ug/kg C U	13.000	ug/kg C U	12.000	ug/kg C UU
Carbon Tetrachloride	12.000	ug/kg C U	13.000	ug/kg C U	6.000	ug/kg C U
Carbon disulfide	12.000	ug/kg C UU	13.000	ug/kg C UU	6.000	ug/kg C U
Chlorobenzene	12.000	ug/kg C U	13.000	ug/kg C U	6.000	ug/kg C U
Chloroethane	12.000	ug/kg C U	13.000	ug/kg C U	12.000	ug/kg C UU
Chloroform	12.000	ug/kg C U	13.000	ug/kg C U	6.000	ug/kg C U
Chloromethane	12.000	ug/kg C U	13.000	ug/kg C U	12.000	ug/kg C U
Dibromochloromethane	12.000	ug/kg C U	13.000	ug/kg C U	6.000	ug/kg C U
Ethylbenzene	12.000	ug/kg C U	13.000	ug/kg C U	6.000	ug/kg C U
Methylene chloride	15.000	ug/kg C U	13.000	ug/kg C U	12.000	ug/kg C UU
Styrene	12.000	ug/kg C U	13.000	ug/kg C U	6.000	ug/kg C U
Tetrachloroethene	12.000	ug/kg C U	13.000	ug/kg C U	6.000	ug/kg C U
Toluene	1.000	ug/kg C U	13.000	ug/kg C U	6.000	ug/kg C U
Trichloroethene	12.000	ug/kg C U	13.000	ug/kg C U	6.000	ug/kg C U
Vinyl Acetate	12.000	ug/kg C U	13.000	ug/kg C U	12.000	ug/kg C U
Vinyl chloride	12.000	ug/kg C U	13.000	ug/kg C U	12.000	ug/kg C U
Xylenes, Total	12.000	ug/kg C U	13.000	ug/kg C U	6.000	ug/kg C U
cis-1,3-Dichloropropene	12.000	ug/kg C U	13.000	ug/kg C U	6.000	ug/kg C U
trans-1,3-Dichloropropene	12.000	ug/kg C U	13.000	ug/kg C U	6.000	ug/kg C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
1,2-Dichlorobenzene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
1,2-Diphenylhydrazine	NA		NA		410.000	ug/kg C U
1,3-Dichlorobenzene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
1,4-Dichlorobenzene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
2,4,5-Trichlorophenol	2000.000	ug/kg C U	2100.000	ug/kg C U	1000.000	ug/kg C U
2,4,6-Trichlorophenol	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
2,4-Dichlorophenol	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
2,4-Dimethylphenol	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
2,4-Dinitrophenol	2000.000	ug/kg C UU	2100.000	ug/kg C UU	2000.000	ug/kg C UU
2,4-Dinitrotoluene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
2,6-Dinitrotoluene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
2-Chloronaphthalene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
2-Chlorophenol	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
2-Methylnaphthalene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
2-Methylphenol	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
2-Nitroaniline	2000.000	ug/kg C U	2100.000	ug/kg C U	1000.000	ug/kg C U
2-Nitrophenol	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U

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000693

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1970	1970	1971			
SAMPLE NUMBER	112690	112893	110327			
SAMPLING DATE	4-5-5 04/18/93	9-10-5 04/18/93	0.5-1 03/22/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
3,3'-Dichlorobenzidine	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
3-Nitroaniline	2000.000	ug/kg C U	2100.000	ug/kg C U	1000.000	ug/kg C U
4,6-Dinitro-2-methylphenol	2000.000	ug/kg C UJ	2100.000	ug/kg C UJ	1000.000	ug/kg C UJ
4-Bromophenyl phenyl ether	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
4-Chloro-3-methylphenol	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
4-Chlorophenylphenyl ether	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
4-Methylphenol	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
4-Nitroaniline	2000.000	ug/kg C U	2100.000	ug/kg C U	1000.000	ug/kg C U
4-Nitrophenol	2000.000	ug/kg C UJ	2100.000	ug/kg C UJ	1000.000	ug/kg C U
Acenaphthene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Acenaphthylene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Anthracene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Benzo(a)anthracene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Benzo(a)pyrene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Benzo(b)fluoranthene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Benzo(g,h,i)perylene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Benzo(k)fluoranthene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Benzoic acid	46.000	ug/kg C J	2100.000	ug/kg C UJ	2000.000	ug/kg C UJ
Benzyl alcohol	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Butyl benzyl phthalate	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Carbazole	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Chrysene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Di-n-butyl phthalate	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Di-n-octyl phthalate	400.000	ug/kg C UJ	430.000	ug/kg C UJ	410.000	ug/kg C U
Dibenzo(a,h)anthracene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Dibenzofuran	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Diethyl phthalate	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Dimethyl phthalate	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Fluoranthene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Fluorene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Hexachlorobenzene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Hexachlorobutadiene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Hexachlorocyclopentadiene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Hexachloroethane	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Indeno(1,2,3-cd)pyrene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Isophorone	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
N-Nitroso-di-n-propylamine	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
N-Nitrosodimethylamine	NA		430.000	ug/kg C U	410.000	ug/kg C U
N-Nitrosodiphenylamine	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Naphthalene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Nitrobenzene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Pentachlorophenol	2000.000	ug/kg C U	2100.000	ug/kg C U	1000.000	ug/kg C U

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1970	1970	1971			
SAMPLE NUMBER	112690	112893	110327			
	4-5.5	9-10.5	0.5-1			
SAMPLING DATE	04/18/93	04/18/93	03/22/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Phenanthrene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Phenol	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Pyrene	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
Tributyl phosphate	NA		NA		410.000	ug/kg C U
bis(2-Chloroethoxy)methane	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
bis(2-Chloroethyl)ether	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
bis(2-Chloroisopropyl) ether	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
bis(2-Ethylhexyl) phthalate	56.000	ug/kg C J	430.000	ug/kg C U	100.000	ug/kg C J
p-Chloroaniline	400.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	4.100	ug/kg C U	4.300	ug/kg C U	4.100	ug/kg C U
4,4'-DDE	4.100	ug/kg C U	4.300	ug/kg C U	4.100	ug/kg C U
4,4'-DDT	4.100	ug/kg C U	4.300	ug/kg C U	4.100	ug/kg C U
Aldrin	2.100	ug/kg C U	2.200	ug/kg C U	2.100	ug/kg C U
Aroclor-1016	41.000	ug/kg C U	43.000	ug/kg C U	41.000	ug/kg C U
Aroclor-1221	82.000	ug/kg C U	88.000	ug/kg C U	84.000	ug/kg C U
Aroclor-1232	41.000	ug/kg C U	43.000	ug/kg C U	41.000	ug/kg C U
Aroclor-1242	41.000	ug/kg C U	43.000	ug/kg C U	41.000	ug/kg C U
Aroclor-1248	41.000	ug/kg C U	43.000	ug/kg C U	41.000	ug/kg C U
Aroclor-1254	41.000	ug/kg C U	43.000	ug/kg C U	41.000	ug/kg C U
Aroclor-1260	41.000	ug/kg C U	43.000	ug/kg C U	41.000	ug/kg C U
Dieldrin	4.100	ug/kg C U	4.300	ug/kg C U	4.100	ug/kg C U
Endosulfan II	4.100	ug/kg C U	4.300	ug/kg C U	4.100	ug/kg C U
Endosulfan sulfate	4.100	ug/kg C U	4.300	ug/kg C U	4.100	ug/kg C U
Endosulfan-I	2.100	ug/kg C U	2.200	ug/kg C U	2.100	ug/kg C U
Endrin	4.100	ug/kg C U	4.300	ug/kg C U	4.100	ug/kg C U
Endrin aldehyde	4.100	ug/kg C U	4.300	ug/kg C U	4.100	ug/kg C U
Endrin ketone	4.100	ug/kg C U	4.300	ug/kg C U	4.100	ug/kg C U
Heptachlor	2.100	ug/kg C U	2.200	ug/kg C U	2.100	ug/kg C U
Heptachlor epoxide	2.100	ug/kg C U	2.200	ug/kg C U	2.100	ug/kg C U
Methoxychlor	21.000	ug/kg C U	22.000	ug/kg C U	21.000	ug/kg C U
Toxaphene	210.000	ug/kg C U	220.000	ug/kg C U	210.000	ug/kg C U
alpha-BHC	2.100	ug/kg C U	2.200	ug/kg C U	2.100	ug/kg C U
alpha-Chlordane	2.100	ug/kg C U	2.200	ug/kg C U	2.100	ug/kg C U
beta-BHC	2.100	ug/kg C U	2.200	ug/kg C U	2.100	ug/kg C U
delta-BHC	2.100	ug/kg C U	2.200	ug/kg C U	2.100	ug/kg C U
gamma-BHC (Lindane)	2.100	ug/kg C U	2.200	ug/kg C U	2.100	ug/kg C U
gamma-Chlordane	2.100	ug/kg C U	2.200	ug/kg C U	2.100	ug/kg C U

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000695

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1971			1971			1972					
SAMPLE NUMBER	112536			112593			110382					
SAMPLING DATE	4.5-6.5			9.5-11			0.5-1					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS			
<u>Inorganics</u>												
Aluminum	15600.000	mg/kg	C	-	12200.000	mg/kg	C	-	7800.000	mg/kg	C	-
Antimony	1.200	mg/kg	C	U	1.000	mg/kg	C	U	1.100	mg/kg	C	UJ
Arsenic	8.900	mg/kg	C	U	5.600	mg/kg	C	-	14.100	mg/kg	C	-
Barium	81.500	mg/kg	C	-	72.900	mg/kg	C	-	60.000	mg/kg	C	-
Beryllium	0.920	mg/kg	C	-	0.650	mg/kg	C	-	0.460	mg/kg	C	-
Cadmium	1.200	mg/kg	C	U	1.000	mg/kg	C	U	1.100	mg/kg	C	U
Calcium	77500.000	mg/kg	C	-	130000.000	mg/kg	C	-	104000.000	mg/kg	C	-
Chromium	17.500	mg/kg	C	-	13.800	mg/kg	C	-	13.300	mg/kg	C	-
Cobalt	13.100	mg/kg	C	-	11.000	mg/kg	C	-	7.400	mg/kg	C	-
Copper	25.000	mg/kg	C	-	19.700	mg/kg	C	-	18.100	mg/kg	C	-
Cyanide	0.130	mg/kg	C	U	0.780	mg/kg	C	-	0.170	mg/kg	C	-
Iron	30100.000	mg/kg	C	U	22200.000	mg/kg	C	-	14600.000	mg/kg	C	-
Lead	12.600	mg/kg	C	-	10.300	mg/kg	C	-	44.100	mg/kg	C	-
Magnesium	25100.000	mg/kg	C	-	21300.000	mg/kg	C	-	32600.000	mg/kg	C	-
Manganese	724.000	mg/kg	C	U	488.000	mg/kg	C	-	766.000	mg/kg	C	-
Mercury	0.120	mg/kg	C	U	0.120	mg/kg	C	U	0.140	mg/kg	C	J
Molybdenum	8.900	mg/kg	C	-	7.500	mg/kg	C	-	4.500	mg/kg	C	U
Nickel	33.500	mg/kg	C	-	24.800	mg/kg	C	-	13.800	mg/kg	C	-
Potassium	2480.000	mg/kg	C	-	2590.000	mg/kg	C	-	1070.000	mg/kg	C	-
Selenium	0.470	mg/kg	C	U	0.450	mg/kg	C	U	0.450	mg/kg	C	U
Silicon	862.000	mg/kg	C	-	734.000	mg/kg	C	-	685.000	mg/kg	C	J
Silver	9.200	mg/kg	C	-	6.400	mg/kg	C	-	3.400	mg/kg	C	J
Sodium	124.000	mg/kg	C	-	117.000	mg/kg	C	-	133.000	mg/kg	C	-
Thallium	0.470	mg/kg	C	U	0.450	mg/kg	C	U	0.450	mg/kg	C	U
Vanadium	35.600	mg/kg	C	-	24.800	mg/kg	C	-	21.100	mg/kg	C	-
Zinc	69.700	mg/kg	C	-	57.800	mg/kg	C	-	41.500	mg/kg	C	-
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
1,1,2,2-Tetrachloroethane	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
1,1,2-Trichloroethane	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
1,1-Dichloroethane	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
1,1-Dichloroethene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
1,2-Dichloroethane	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
1,2-Dichloroethene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
1,2-Dichloropropane	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
2-Butanone	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
2-Hexanone	12.000	ug/kg	C	J	12.000	ug/kg	C	J	12.000	ug/kg	C	U
4-Methyl-2-pentanone	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Acetone	12.000	ug/kg	C	U	3.000	ug/kg	C	J	12.000	ug/kg	C	J
Benzene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U

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000696

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1971	1971	1972			
SAMPLE NUMBER	112536	112593	110382			
SAMPLING DATE	4.5-6.5 04/15/93	9.5-11 04/15/93	0.5-1 03/19/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Bromoform	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Bromomethane	12.000	ug/kg C UJ	12.000	ug/kg C UJ	12.000	ug/kg C U
Carbon Tetrachloride	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Carbon disulfide	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chlorobenzene	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chloroethane	12.000	ug/kg C UJ	12.000	ug/kg C UJ	12.000	ug/kg C U
Chloroform	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chloromethane	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C R
Dibromochloromethane	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Ethylbenzene	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C UJ
Methylene chloride	15.000	ug/kg C U	14.000	ug/kg C U	12.000	ug/kg C UJ
Styrene	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Tetrachloroethene	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Toluene	12.000	ug/kg C U	3.000	ug/kg C U	12.000	ug/kg C U
Trichloroethene	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Vinyl Acetate	12.000	ug/kg C UJ	12.000	ug/kg C U	12.000	ug/kg C UJ
Vinyl chloride	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Xylenes, Total	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
cis-1,3-Dichloropropene	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
trans-1,3-Dichloropropene	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
1,2-Dichlorobenzene	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
1,3-Dichlorobenzene	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
1,4-Dichlorobenzene	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
2,4,5-Trichlorophenol	1000.000	ug/kg C UJ	990.000	ug/kg C U	960.000	ug/kg C U
2,4,6-Trichlorophenol	420.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
2,4-Dichlorophenol	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
2,4-Dimethylphenol	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
2,4-Dinitrophenol	1000.000	ug/kg C UJ	990.000	ug/kg C U	1900.000	ug/kg C R
2,4-Dinitrotoluene	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C UJ
2,6-Dinitrotoluene	420.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C UJ
2-Chloronaphthalene	420.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
2-Chlorophenol	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
2-Methylnaphthalene	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
2-Methylphenol	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
2-Nitroaniline	1000.000	ug/kg C UJ	990.000	ug/kg C U	960.000	ug/kg C U
2-Nitrophenol	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
3,3'-Dichlorobenzidine	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U

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000697

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1971	1971	1972			
SAMPLE NUMBER	112536	112593	110382			
SAMPLING DATE	4.5-6.5	9.5-11	0.5-1			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
3-Nitroaniline	1000.000	ug/kg C U	990.000	ug/kg C U	960.000	ug/kg C U
4,6-Dinitro-2-methylphenol	1000.000	ug/kg C R	990.000	ug/kg C R	960.000	ug/kg C R
4-Bromophenyl phenyl ether	420.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
4-Chloro-3-methylphenol	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
4-Chlorophenylphenyl ether	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
4-Methylphenol	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
4-Nitroaniline	1000.000	ug/kg C R	990.000	ug/kg C R	960.000	ug/kg C U
4-Nitrophenol	1000.000	ug/kg C U	990.000	ug/kg C U	960.000	ug/kg C R
Acenaphthene	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
Acenaphthylene	420.000	ug/kg C UJ	410.000	ug/kg C U	410.000	ug/kg C -
Anthracene	420.000	ug/kg C U	410.000	ug/kg C U	250.000	ug/kg C J
Benzo(a)anthracene	420.000	ug/kg C U	410.000	ug/kg C U	1100.000	ug/kg C -
Benzo(a)pyrene	420.000	ug/kg C U	410.000	ug/kg C U	1800.000	ug/kg C -
Benzo(b)fluoranthene	420.000	ug/kg C U	410.000	ug/kg C U	1600.000	ug/kg C -
Benzo(g,h,i)perylene	420.000	ug/kg C UJ	410.000	ug/kg C UJ	1200.000	ug/kg C -
Benzo(k)fluoranthene	420.000	ug/kg C U	410.000	ug/kg C U	1600.000	ug/kg C -
Benzoic acid	2000.000	ug/kg C UJ	2000.000	ug/kg C UJ	1900.000	ug/kg C R
Benzyl alcohol	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C R
Butyl benzyl phthalate	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
Carbazole	420.000	ug/kg C U	410.000	ug/kg C U	51.000	ug/kg C J
Chrysene	420.000	ug/kg C U	410.000	ug/kg C U	1400.000	ug/kg C -
Di-n-butyl phthalate	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
Di-n-octyl phthalate	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C UJ
Dibenzo(a,h)anthracene	420.000	ug/kg C U	410.000	ug/kg C U	440.000	ug/kg C -
Dibenzofuran	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
Diethyl phthalate	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
Dimethyl phthalate	420.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
Fluoranthene	420.000	ug/kg C U	410.000	ug/kg C U	1800.000	ug/kg C -
Fluorene	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
Hexachlorobenzene	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
Hexachlorobutadiene	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
Hexachlorocyclopentadiene	420.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C UJ
Hexachloroethane	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
Indeno(1,2,3-cd)pyrene	420.000	ug/kg C U	410.000	ug/kg C U	210.000	ug/kg C J
Isophorone	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
N-Nitroso-di-n-propylamine	420.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
N-Nitrosodiphenylamine	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
Naphthalene	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
Nitrobenzene	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
Pentachlorophenol	1000.000	ug/kg C UJ	990.000	ug/kg C UJ	960.000	ug/kg C UJ
Phenanthrene	420.000	ug/kg C U	410.000	ug/kg C U	350.000	ug/kg C J
Phenol	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U

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000698

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1971	1971	1972			
SAMPLE NUMBER	112536	112593	110382			
SAMPLING DATE	4.5-6.5 04/15/93	9.5-11 04/15/93	0.5-1 03/19/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Pyrene	420.000	ug/kg C U	410.000	ug/kg C U	1400.000	ug/kg C -
bis(2-Chloroethoxy)methane	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
bis(2-Chloroethyl)ether	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
bis(2-Chloroisopropyl) ether	420.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C UJ
bis(2-Ethylhexyl) phthalate	420.000	ug/kg C U	410.000	ug/kg C U	87.000	ug/kg C J
p-Chloroaniline	420.000	ug/kg C U	410.000	ug/kg C U	400.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	4.200	ug/kg C U	4.100	ug/kg C U	4.000	ug/kg C U
4,4'-DDE	4.200	ug/kg C U	4.100	ug/kg C U	4.000	ug/kg C U
4,4'-DDT	4.200	ug/kg C U	4.100	ug/kg C UU	4.000	ug/kg C U
Aldrin	2.200	ug/kg C U	2.100	ug/kg C UU	2.100	ug/kg C U
Aroclor-1016	42.000	ug/kg C U	41.000	ug/kg C UU	40.000	ug/kg C U
Aroclor-1221	85.000	ug/kg C U	83.000	ug/kg C UU	81.000	ug/kg C U
Aroclor-1232	42.000	ug/kg C U	41.000	ug/kg C UU	40.000	ug/kg C U
Aroclor-1242	42.000	ug/kg C U	41.000	ug/kg C UU	40.000	ug/kg C U
Aroclor-1248	42.000	ug/kg C U	41.000	ug/kg C UU	40.000	ug/kg C U
Aroclor-1254	42.000	ug/kg C U	41.000	ug/kg C UU	85.000	ug/kg C -
Aroclor-1260	42.000	ug/kg C U	41.000	ug/kg C UU	40.000	ug/kg C U
Dieldrin	4.200	ug/kg C U	4.100	ug/kg C UU	4.000	ug/kg C U
Endosulfan II	4.200	ug/kg C U	4.100	ug/kg C UU	4.000	ug/kg C U
Endosulfan sulfate	4.200	ug/kg C U	4.100	ug/kg C UU	4.000	ug/kg C U
Endosulfan-I	2.200	ug/kg C U	2.100	ug/kg C UU	2.100	ug/kg C U
Endrin	4.200	ug/kg C U	4.100	ug/kg C UU	4.000	ug/kg C U
Endrin aldehyde	4.200	ug/kg C U	4.100	ug/kg C UU	4.000	ug/kg C U
Endrin ketone	4.200	ug/kg C U	4.100	ug/kg C UU	4.000	ug/kg C U
Heptachlor	2.200	ug/kg C U	2.100	ug/kg C UU	2.100	ug/kg C U
Heptachlor epoxide	2.200	ug/kg C U	2.100	ug/kg C UU	2.100	ug/kg C U
Methoxychlor	22.000	ug/kg C U	21.000	ug/kg C UU	21.000	ug/kg C U
Toxaphene	220.000	ug/kg C U	210.000	ug/kg C UU	210.000	ug/kg C U
alpha-BHC	2.200	ug/kg C U	2.100	ug/kg C UU	2.100	ug/kg C U
alpha-Chlordane	2.200	ug/kg C U	2.100	ug/kg C UU	2.100	ug/kg C U
beta-BHC	2.200	ug/kg C U	2.100	ug/kg C UU	2.100	ug/kg C U
delta-BHC	2.200	ug/kg C U	2.100	ug/kg C UU	2.100	ug/kg C U
gamma-BHC (Lindane)	2.200	ug/kg C U	2.100	ug/kg C UU	2.100	ug/kg C U
gamma-Chlordane	2.200	ug/kg C U	2.100	ug/kg C UU	2.100	ug/kg C U

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000639

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1972	1972	1975
SAMPLE NUMBER	110584	112494	110389
SAMPLING DATE	2.5-4 04/08/93	7.5-9 04/08/93	0.5-1 03/22/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Inorganics</u>			
Aluminum	20000.000	mg/kg C -	6560.000
Antimony	1.100	mg/kg C UJ	0.870
Arsenic	10.200	mg/kg C J	4.000
Barium	53.400	mg/kg C -	41.000
Beryllium	0.600	mg/kg C -	1.700
Cadmium	1.100	mg/kg C U	4.400
Calcium	1620.000	mg/kg C -	115000.000
Chromium	20.400	mg/kg C -	9.000
Cobalt	5.600	mg/kg C -	8.700
Copper	23.900	mg/kg C -	12.100
Cyanide	0.120	mg/kg C U	0.120
Iron	29600.000	mg/kg C -	13800.000
Lead	11.800	mg/kg C J	3.300
Magnesium	3410.000	mg/kg C -	35200.000
Manganese	186.000	mg/kg C J	311.000
Mercury	0.110	mg/kg C U	0.110
Molybdenum	8.600	mg/kg C -	17.500
Nickel	21.800	mg/kg C -	17.500
Potassium	1510.000	mg/kg C -	1100.000
Selenium	0.470	mg/kg C U	0.410
Silicon	766.000	mg/kg C J	1010.000
Silver	9.000	mg/kg C -	8.700
Sodium	67.600	mg/kg C U	294.000
Thallium	0.470	mg/kg C U	0.410
Vanadium	47.500	mg/kg C -	18.700
Zinc	65.200	mg/kg C -	60.200
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	12.000	ug/kg C U	12.000
1,1,2,2-Tetrachloroethane	12.000	ug/kg C U	12.000
1,1,2-Trichloroethane	12.000	ug/kg C U	12.000
1,1-Dichloroethane	12.000	ug/kg C U	12.000
1,1-Dichloroethene	12.000	ug/kg C U	12.000
1,2-Dichloroethane	12.000	ug/kg C U	12.000
1,2-Dichloroethene	12.000	ug/kg C U	12.000
1,2-Dichloropropane	12.000	ug/kg C U	12.000
2-Butanone	12.000	ug/kg C U	12.000
2-Hexanone	12.000	ug/kg C U	12.000
4-Methyl-2-pentanone	12.000	ug/kg C U	12.000
Acetone	6.000	ug/kg C J	3.000
Benzene	12.000	ug/kg C U	12.000

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000200

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January 21, 1995

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1972	1972	1975	
SAMPLE NUMBER	110584	112494	110389	
SAMPLING DATE	2.5-4 04/08/93	7.5-9 04/08/93	0.5-1 03/22/93	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	
<u>Volatile Organics</u>				
Bromodichloromethane	12.000	ug/kg C U	12.000	ug/kg C U
Bromoform	12.000	ug/kg C U	12.000	ug/kg C U
Bromomethane	12.000	ug/kg C U	12.000	ug/kg C U
Carbon Tetrachloride	12.000	ug/kg C U	12.000	ug/kg C U
Carbon disulfide	12.000	ug/kg C U	12.000	ug/kg C U
Chlorobenzene	12.000	ug/kg C U	12.000	ug/kg C U
Chloroethane	12.000	ug/kg C U	12.000	ug/kg C U
Chloroform	12.000	ug/kg C U	12.000	ug/kg C U
Chloromethane	12.000	ug/kg C U	12.000	ug/kg C U
Dibromochloromethane	12.000	ug/kg C U	12.000	ug/kg C U
Ethylbenzene	12.000	ug/kg C U	12.000	ug/kg C U
Methylene chloride	12.000	ug/kg C U	12.000	ug/kg C U
Styrene	12.000	ug/kg C U	12.000	ug/kg C U
Tetrachloroethene	12.000	ug/kg C U	12.000	ug/kg C U
Toluene	11.000	ug/kg C J	12.000	ug/kg C U
Trichloroethene	12.000	ug/kg C U	12.000	ug/kg C U
Vinyl Acetate	12.000	ug/kg C U	12.000	ug/kg C U
Vinyl chloride	12.000	ug/kg C U	12.000	ug/kg C U
Xylenes, Total	12.000	ug/kg C U	12.000	ug/kg C U
cis-1,3-Dichloropropene	12.000	ug/kg C U	12.000	ug/kg C U
trans-1,3-Dichloropropene	12.000	ug/kg C U	12.000	ug/kg C U
<u>Semivolatile Organics</u>				
1,2,4-Trichlorobenzene	390.000	ug/kg C U	410.000	ug/kg C U
1,2-Dichlorobenzene	390.000	ug/kg C U	410.000	ug/kg C U
1,2-Diphenylhydrazine	NA		NA	
1,3-Dichlorobenzene	390.000	ug/kg C U	410.000	ug/kg C U
1,4-Dichlorobenzene	390.000	ug/kg C U	410.000	ug/kg C U
2,4,5-Trichlorophenol	950.000	ug/kg C U	980.000	ug/kg C U
2,4,6-Trichlorophenol	390.000	ug/kg C U	410.000	ug/kg C U
2,4-Dichlorophenol	390.000	ug/kg C U	410.000	ug/kg C U
2,4-Dimethylphenol	390.000	ug/kg C U	410.000	ug/kg C U
2,4-Dinitrophenol	950.000	ug/kg C U	980.000	ug/kg C U
2,4-Dinitrotoluene	390.000	ug/kg C U	410.000	ug/kg C U
2,6-Dinitrotoluene	390.000	ug/kg C U	410.000	ug/kg C U
2-Chloronaphthalene	390.000	ug/kg C U	410.000	ug/kg C U
2-Chlorophenol	390.000	ug/kg C U	410.000	ug/kg C U
2-Methylnaphthalene	390.000	ug/kg C U	410.000	ug/kg C U
2-Methylphenol	390.000	ug/kg C U	410.000	ug/kg C U
2-Nitroaniline	950.000	ug/kg C U	980.000	ug/kg C U
2-Nitrophenol	390.000	ug/kg C U	410.000	ug/kg C U

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000701

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1972	1972	1975			
SAMPLE NUMBER	110584	112494	110389			
SAMPLING DATE	2.5-4 04/08/93	7.5-9 04/08/93	0.5-1 03/22/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
3,3'-Dichlorobenzidine	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
3-Nitroaniline	950.000	ug/kg C U	980.000	ug/kg C U	990.000	ug/kg C U
4,6-Dinitro-2-methylphenol	950.000	ug/kg C U	980.000	ug/kg C U	990.000	ug/kg C UJ
4-Bromophenyl phenyl ether	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
4-Chloro-3-methylphenol	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
4-Chlorophenylphenyl ether	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
4-Methylphenol	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
4-Nitroaniline	950.000	ug/kg C U	980.000	ug/kg C U	990.000	ug/kg C U
4-Nitrophenol	950.000	ug/kg C U	980.000	ug/kg C U	990.000	ug/kg C U
Acenaphthene	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Acenaphthylene	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Anthracene	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Benzo(a)anthracene	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Benzo(a)pyrene	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Benzo(b)fluoranthene	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Benzo(g,h,i)perylene	390.000	ug/kg C UJ	410.000	ug/kg C UJ	410.000	ug/kg C U
Benzo(k)fluoranthene	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Benzoic acid	1900.000	ug/kg C U	2000.000	ug/kg C U	2000.000	ug/kg C UJ
Benzyl alcohol	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Butyl benzyl phthalate	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Carbazole	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Chrysene	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Di-n-butyl phthalate	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Di-n-octyl phthalate	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Dibenzo(a,h)anthracene	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Dibenzofuran	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Diethyl phthalate	390.000	ug/kg C UJ	410.000	ug/kg C UJ	410.000	ug/kg C U
Dimethyl phthalate	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Fluoranthene	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Fluorene	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Hexachlorobenzene	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Hexachlorobutadiene	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Hexachlorocyclopentadiene	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Hexachloroethane	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Indeno(1,2,3-cd)pyrene	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Isophorone	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
N-Nitroso-di-n-propylamine	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
N-Nitrosodimethylamine	NA		NA		410.000	ug/kg C U
N-Nitrosodiphenylamine	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Naphthalene	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Nitrobenzene	390.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
Pentachlorophenol	950.000	ug/kg C U	980.000	ug/kg C U	990.000	ug/kg C U

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1972	1972	1975	
SAMPLE NUMBER	110584	112494	110389	
SAMPLING DATE	2.5-4 04/08/93	7.5-9 04/08/93	0.5-1 03/22/93	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	
Semivolatile Organics				
Phenanthrene	390.000	ug/kg C U	410.000	ug/kg C U
Phenol	390.000	ug/kg C U	410.000	ug/kg C U
Pyrene	390.000	ug/kg C U	410.000	ug/kg C U
Tributyl phosphate	NA		NA	
bis(2-Chloroethoxy)methane	390.000	ug/kg C U	410.000	ug/kg C U
bis(2-Chloroethyl)ether	390.000	ug/kg C U	410.000	ug/kg C U
bis(2-Chloroisopropyl) ether	390.000	ug/kg C U	410.000	ug/kg C U
bis(2-Ethylhexyl) phthalate	390.000	ug/kg C U	410.000	ug/kg C J
p-Chloroaniline	390.000	ug/kg C U	410.000	ug/kg C U
Pesticide Organics/PCBs				
4,4'-DDD	4.000	ug/kg C UJ	4.000	ug/kg C UJ
4,4'-DDE	4.000	ug/kg C U	4.000	ug/kg C U
4,4'-DDT	4.000	ug/kg C U	4.000	ug/kg C U
Aldrin	2.000	ug/kg C U	2.100	ug/kg C U
Aroclor-1016	40.000	ug/kg C U	40.000	ug/kg C U
Aroclor-1221	80.000	ug/kg C U	82.000	ug/kg C U
Aroclor-1232	40.000	ug/kg C U	40.000	ug/kg C U
Aroclor-1242	40.000	ug/kg C U	40.000	ug/kg C U
Aroclor-1248	40.000	ug/kg C U	40.000	ug/kg C U
Aroclor-1254	40.000	ug/kg C U	40.000	ug/kg C U
Aroclor-1260	40.000	ug/kg C U	40.000	ug/kg C U
Dieldrin	4.000	ug/kg C U	4.000	ug/kg C U
Endosulfan II	4.000	ug/kg C U	4.000	ug/kg C U
Endosulfan sulfate	4.000	ug/kg C U	4.000	ug/kg C U
Endosulfan-I	2.000	ug/kg C U	2.100	ug/kg C U
Endrin	4.000	ug/kg C U	4.000	ug/kg C U
Endrin aldehyde	4.000	ug/kg C U	4.000	ug/kg C U
Endrin ketone	4.000	ug/kg C U	4.000	ug/kg C U
Heptachlor	2.000	ug/kg C U	2.100	ug/kg C U
Heptachlor epoxide	2.000	ug/kg C U	2.100	ug/kg C U
Methoxychlor	20.000	ug/kg C U	21.000	ug/kg C U
Toxaphene	200.000	ug/kg C U	210.000	ug/kg C U
alpha-BHC	2.000	ug/kg C U	2.100	ug/kg C U
alpha-Chlordane	2.000	ug/kg C U	2.100	ug/kg C U
beta-BHC	2.000	ug/kg C U	2.100	ug/kg C U
delta-BHC	2.000	ug/kg C U	2.100	ug/kg C U
gamma-BHC (Lindane)	2.000	ug/kg C U	2.100	ug/kg C U
gamma-Chlordane	2.000	ug/kg C U	2.100	ug/kg C U

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TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1975	1975	1977			
SAMPLE NUMBER	112545	112550	110571			
4-5		8.5-10.5	8.5-10			
SAMPLING DATE	04/13/93	04/13/93	04/06/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Inorganics</u>						
Aluminum	16600.000	mg/kg D -	12000.000	mg/kg C -	14900.000	mg/kg D -
Antimony	1.200	mg/kg D UJ	0.870	mg/kg C UJ	1.200	mg/kg D UJ
Arsenic	11.900	mg/kg D -	6.900	mg/kg C -	5.200	mg/kg D -
Barium	179.000	mg/kg D -	83.100	mg/kg C -	97.400	mg/kg D -
Beryllium	0.850	mg/kg D -	0.580	mg/kg C -	0.770	mg/kg D -
Cadmium	1.200	mg/kg D U	0.870	mg/kg C U	1.200	mg/kg D U
Calcium	3880.000	mg/kg D -	68800.000	mg/kg C -	76900.000	mg/kg D -
Chromium	19.700	mg/kg D -	14.300	mg/kg C -	15.800	mg/kg D -
Cobalt	4.800	mg/kg D -	10.600	mg/kg C -	9.500	mg/kg D U
Copper	24.400	mg/kg D -	21.300	mg/kg C -	20.800	mg/kg D -
Cyanide	0.120	mg/kg D U	0.120	mg/kg C U	0.120	mg/kg D U
Iron	28200.000	mg/kg D -	25500.000	mg/kg C -	22700.000	mg/kg D -
Lead	4.500	mg/kg D J	5.500	mg/kg C J	13.300	mg/kg D J
Magnesium	4790.000	mg/kg D -	22800.000	mg/kg C -	26500.000	mg/kg D -
Manganese	190.000	mg/kg D J	452.000	mg/kg C J	-536.000	mg/kg D J
Mercury	0.110	mg/kg D U	0.110	mg/kg C U	0.120	mg/kg D U
Molybdenum	7.700	mg/kg D -	7.500	mg/kg C -	5.700	mg/kg D -
Nickel	23.000	mg/kg D -	26.600	mg/kg C -	23.400	mg/kg D -
Potassium	1030.000	mg/kg D -	2210.000	mg/kg C -	1490.000	mg/kg D -
Selenium	0.470	mg/kg D U	0.440	mg/kg C UJ	0.450	mg/kg D U
Silicon	401.000	mg/kg D J	872.000	mg/kg C J	975.000	mg/kg D J
Silver	8.700	mg/kg D -	7.400	mg/kg C -	6.300	mg/kg D -
Sodium	82.500	mg/kg D -	126.000	mg/kg C -	126.000	mg/kg D -
Thallium	0.470	mg/kg D U	0.440	mg/kg C U	0.450	mg/kg D U
Vanadium	35.800	mg/kg D -	28.400	mg/kg C -	32.800	mg/kg D -
Zinc	72.900	mg/kg D -	64.300	mg/kg C -	55.500	mg/kg D -
<u>Volatile Organics</u>						
1,1,1-Trichloroethane	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
1,1,2,2-Tetrachloroethane	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
1,1,2-Trichloroethane	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
1,1-Dichloroethane	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
1,1-Dichloroethene	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
1,2-Dichloroethane	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
1,2-Dichloroethene	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
1,2-Dichloropropane	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
2-Butanone	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
2-Hexanone	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
4-Methyl-2-pentanone	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
Acetone	12.000	ug/kg D U	12.000	ug/kg C U	8.000	ug/kg D J
Benzene	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U

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TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1975	1975	1977			
SAMPLE NUMBER	112545	112550	110571			
SAMPLING DATE	4-5 04/13/93	8.5-10.5 04/13/93	8.5-10 04/06/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Volatile Organics						
Bromodichloromethane	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
Bromoform	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
Bromomethane	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
Carbon Tetrachloride	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
Carbon disulfide	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
Chlorobenzene	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
Chloroethane	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
Chloroform	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
Chloromethane	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
Dibromochloromethane	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
Ethylbenzene	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
Methylene chloride	18.000	ug/kg D U	16.000	ug/kg C U	12.000	ug/kg D U
Styrene	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
Tetrachloroethene	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
Toluene	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
Trichloroethene	12.000	ug/kg D U	12.000	ug/kg C U	2.000	ug/kg D J
Vinyl Acetate	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
Vinyl chloride	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
Xylenes, Total	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
cis-1,3-Dichloropropene	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
trans-1,3-Dichloropropene	12.000	ug/kg D U	12.000	ug/kg C U	12.000	ug/kg D U
Semivolatile Organics						
1,2,4-Trichlorobenzene	400.000	ug/kg D U	410.000	ug/kg C U	410.000	ug/kg D U
1,2-Dichlorobenzene	400.000	ug/kg D U	410.000	ug/kg C U	410.000	ug/kg D U
1,3-Dichlorobenzene	400.000	ug/kg D U	410.000	ug/kg C U	410.000	ug/kg D U
1,4-Dichlorobenzene	400.000	ug/kg D U	410.000	ug/kg C U	410.000	ug/kg D U
2,4,5-Trichlorophenol	2000.000	ug/kg D U	2000.000	ug/kg C U	990.000	ug/kg D U
2,4,6-Trichlorophenol	400.000	ug/kg D U	410.000	ug/kg C U	410.000	ug/kg D U
2,4-Dichlorophenol	400.000	ug/kg D U	410.000	ug/kg C U	410.000	ug/kg D U
2,4-Dimethylphenol	400.000	ug/kg D U	410.000	ug/kg C U	410.000	ug/kg D U
2,4-Dinitrophenol	2000.000	ug/kg D U	2000.000	ug/kg C U	990.000	ug/kg D U
2,4-Dinitrotoluene	400.000	ug/kg D U	410.000	ug/kg C U	410.000	ug/kg D U
2,6-Dinitrotoluene	400.000	ug/kg D U	410.000	ug/kg C U	410.000	ug/kg D U
2-Chloronaphthalene	400.000	ug/kg D U	410.000	ug/kg C U	410.000	ug/kg D U
2-Chlorophenol	400.000	ug/kg D U	410.000	ug/kg C U	410.000	ug/kg D U
2-Methylnaphthalene	400.000	ug/kg D U	410.000	ug/kg C U	410.000	ug/kg D U
2-Methylphenol	400.000	ug/kg D U	410.000	ug/kg C U	410.000	ug/kg D U
2-Nitroaniline	2000.000	ug/kg D U	2000.000	ug/kg C U	990.000	ug/kg D U
2-Nitrophenol	400.000	ug/kg D U	410.000	ug/kg C U	410.000	ug/kg D U
3,3'-Dichlorobenzidine	400.000	ug/kg D U	410.000	ug/kg C U	410.000	ug/kg D U

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1975	1975	1977
SAMPLE NUMBER	112545	112550	110571
SAMPLING DATE	4-5 04/13/93	8.5-10.5 04/13/93	8.5-10 04/06/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
Semivolatile Organics			
3-Nitroaniline	2000.000	ug/kg D U	2000.000
4,6-Dinitro-2-methylphenol	2000.000	ug/kg D R	2000.000
4-Bromophenyl phenyl ether	400.000	ug/kg D U	410.000
4-Chloro-3-methylphenol	400.000	ug/kg D U	410.000
4-Chlorophenylphenyl ether	400.000	ug/kg D U	410.000
4-Methylphenol	400.000	ug/kg D U	410.000
4-Nitroaniline	2000.000	ug/kg D R	2000.000
4-Nitrophenol	2000.000	ug/kg D U	2000.000
Acenaphthene	400.000	ug/kg D U	410.000
Acenaphthylene	400.000	ug/kg D U	410.000
Anthracene	400.000	ug/kg D U	410.000
Benzo(a)anthracene	400.000	ug/kg D U	410.000
Benzo(a)pyrene	400.000	ug/kg D U	410.000
Benzo(b)fluoranthene	400.000	ug/kg D U	410.000
Benzo(g,h,i)perylene	400.000	ug/kg D U	410.000
Benzo(k)fluoranthene	400.000	ug/kg D U	410.000
Benzoic acid	1900.000	ug/kg D U	2000.000
Benzyl alcohol	400.000	ug/kg D U	410.000
Butyl benzyl phthalate	400.000	ug/kg D U	410.000
Carbazole	400.000	ug/kg D U	410.000
Chrysene	400.000	ug/kg D U	410.000
Di-n-butyl phthalate	400.000	ug/kg D U	410.000
Di-n-octyl phthalate	400.000	ug/kg D U	410.000
Dibenzo(a,h)anthracene	400.000	ug/kg D U	410.000
Dibenzofuran	400.000	ug/kg D U	410.000
Diethyl phthalate	400.000	ug/kg D U	410.000
Dimethyl phthalate	400.000	ug/kg D U	410.000
Fluoranthene	400.000	ug/kg D U	410.000
Fluorene	400.000	ug/kg D U	410.000
Hexachlorobenzene	400.000	ug/kg D U	410.000
Hexachlorobutadiene	400.000	ug/kg D U	410.000
Hexachlorocyclopentadiene	400.000	ug/kg D U	410.000
Hexachloroethane	400.000	ug/kg D U	410.000
Indeno(1,2,3-cd)pyrene	400.000	ug/kg D U	410.000
Isophorone	400.000	ug/kg D U	410.000
N-Nitroso-di-n-propylamine	400.000	ug/kg D U	410.000
N-Nitrosodiphenylamine	400.000	ug/kg D U	410.000
Naphthalene	400.000	ug/kg D U	410.000
Nitrobenzene	400.000	ug/kg D U	410.000
Pentachlorophenol	2000.000	ug/kg D U	2000.000
Phenanthrene	400.000	ug/kg D U	410.000
Phenol	400.000	ug/kg D U	410.000

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TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1975	1975	1977
SAMPLE NUMBER	112545	112550	110571
SAMPLING DATE	4-5 04/13/93	8.5-10.5 04/13/93	8.5-10 04/06/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
Pyrene	400.000	ug/kg D U	410.000
bis(2-Chloroethoxy)methane	400.000	ug/kg D U	410.000
bis(2-Chloroethyl)ether	400.000	ug/kg D U	410.000
bis(2-Chloroisopropyl) ether	400.000	ug/kg D U	410.000
bis(2-Ethylhexyl) phthalate	71.000	ug/kg D J	410.000
p-Chloroaniline	400.000	ug/kg D U	410.000
<u>Pesticide Organics/PCBs</u>			
4,4'-DDD	4.100	ug/kg D UJ	4.100
4,4'-DDE	4.100	ug/kg D U	4.100
4,4'-DDT	4.100	ug/kg D U	4.100
Aldrin	2.100	ug/kg D U	2.100
Aroclor-1016	41.000	ug/kg D U	41.000
Aroclor-1221	82.000	ug/kg D U	83.000
Aroclor-1232	41.000	ug/kg D U	41.000
Aroclor-1242	41.000	ug/kg D U	41.000
Aroclor-1248	41.000	ug/kg D U	41.000
Aroclor-1254	41.000	ug/kg D U	41.000
Aroclor-1260	41.000	ug/kg D U	41.000
Dieldrin	4.100	ug/kg D U	4.100
Endosulfan II	4.100	ug/kg D U	4.100
Endosulfan sulfate	4.100	ug/kg D U	4.100
Endosulfan-I	2.100	ug/kg D U	2.100
Endrin	4.100	ug/kg D U	4.100
Endrin aldehyde	4.100	ug/kg D U	4.100
Endrin ketone	4.100	ug/kg D U	4.100
Heptachlor	2.100	ug/kg D U	2.100
Heptachlor epoxide	2.100	ug/kg D U	2.100
Methoxychlor	21.000	ug/kg D U	21.000
Toxaphene	210.000	ug/kg D U	210.000
alpha-BHC	2.100	ug/kg D U	2.100
alpha-Chlordane	2.100	ug/kg D U	2.100
beta-BHC	2.100	ug/kg D U	2.100
delta-BHC	2.100	ug/kg D U	2.100
gamma-BHC (Lindane)	2.100	ug/kg D U	2.100
gamma-Chlordane	2.100	ug/kg D U	2.100

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TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1977	1978	1978	
SAMPLE NUMBER	110579	110406	112584	
SAMPLING DATE	16.5-18.5 04/07/93	0.5-1 03/24/93	9.5-11 04/16/93	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	
Inorganics				
Aluminum	6460.000	mg/kg C - UJ	11000.000	mg/kg C J
Antimony	0.970	mg/kg C UJ	1.100	mg/kg C U
Arsenic	1.500	mg/kg C -	7.600	mg/kg C J
Barium	22.400	mg/kg C - UJ	86.700	mg/kg C -
Beryllium	0.390	mg/kg C - UJ	0.560	mg/kg C -
Cadmium	0.970	mg/kg C - UJ	1.100	mg/kg C U
Calcium	106000.000	mg/kg C -	32300.000	mg/kg C -
Chromium	8.500	mg/kg C -	12.700	mg/kg C -
Cobalt	4.500	mg/kg C -	8.100	mg/kg C -
Copper	14.300	mg/kg C -	16.800	mg/kg C -
Cyanide	0.110	mg/kg C -	0.120	mg/kg C U
Iron	15000.000	mg/kg C - UJ	21300.000	mg/kg C -
Lead	4.600	mg/kg C J	8.000	mg/kg C J
Magnesium	31400.000	mg/kg C -	11800.000	mg/kg C -
Manganese	309.000	mg/kg C - UJ	618.000	mg/kg C -
Mercury	0.100	mg/kg C UJ	0.110	mg/kg C U
Molybdenum	5.500	mg/kg C -	7.100	mg/kg C -
Nickel	14.800	mg/kg C -	21.700	mg/kg C J
Potassium	1310.000	mg/kg C - UJ	918.000	mg/kg C -
Selenium	0.440	mg/kg C - UJ	0.470	mg/kg C U
Silicon	5.500	mg/kg C J	468.000	mg/kg C -
Silver	3.800	mg/kg C -	5.600	mg/kg C -
Sodium	155.000	mg/kg C -	72.400	mg/kg C -
Thallium	0.480	mg/kg C -	0.470	mg/kg C U
Vanadium	17.200	mg/kg C -	26.500	mg/kg C -
Zinc	36.800	mg/kg C -	48.000	mg/kg C -
Volatile Organics				
1,1,1-Trichloroethane	11.000	ug/kg C U	12.000	ug/kg C U
1,1,2,2-Tetrachloroethane	11.000	ug/kg C UU	12.000	ug/kg C UU
1,1,2-Trichloroethane	11.000	ug/kg C UU	12.000	ug/kg C UU
1,1-Dichloroethane	11.000	ug/kg C UU	12.000	ug/kg C UU
1,1-Dichloroethene	11.000	ug/kg C UU	12.000	ug/kg C UU
1,2-Dichloroethane	11.000	ug/kg C UU	12.000	ug/kg C UU
1,2-Dichloroethene	11.000	ug/kg C UU	12.000	ug/kg C UU
1,2-Dichloropropane	11.000	ug/kg C UU	12.000	ug/kg C UU
2-Butanone	2.000	ug/kg C J	12.000	ug/kg C UU
2-Hexanone	11.000	ug/kg C UU	12.000	ug/kg C UU
4-Methyl-2-pentanone	11.000	ug/kg C UU	12.000	ug/kg C UU
Acetone	14.000	ug/kg C -	12.000	ug/kg C J
Benzene	11.000	ug/kg C -	12.000	ug/kg C U

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000708

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1977	1978	1978			
SAMPLE NUMBER	110579	110406	112584			
SAMPLING DATE	16-5-18-5 04/07/93	0.5-1 03/24/93	9-5-11 04/16/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	11.000	ug/kg C U	12.000	ug/kg C U	13.000	ug/kg C U
Bromoform	11.000	ug/kg C U	12.000	ug/kg C U	13.000	ug/kg C U
Bromomethane	11.000	ug/kg C U	12.000	ug/kg C U	13.000	ug/kg C UJ
Carbon Tetrachloride	11.000	ug/kg C U	12.000	ug/kg C U	13.000	ug/kg C U
Carbon disulfide	4.000	ug/kg C J	12.000	ug/kg C U	13.000	ug/kg C U
Chlorobenzene	11.000	ug/kg C U	12.000	ug/kg C U	13.000	ug/kg C U
Chloroethane	11.000	ug/kg C U	12.000	ug/kg C U	13.000	ug/kg C UJ
Chloroform	11.000	ug/kg C U	12.000	ug/kg C U	13.000	ug/kg C U
Chloromethane	11.000	ug/kg C U	12.000	ug/kg C U	13.000	ug/kg C U
Dibromochloromethane	11.000	ug/kg C U	12.000	ug/kg C U	13.000	ug/kg C U
Ethylbenzene	11.000	ug/kg C U	12.000	ug/kg C U	13.000	ug/kg C U
Methylene chloride	11.000	ug/kg C U	12.000	ug/kg C U	13.000	ug/kg C U
Styrene	11.000	ug/kg C U	12.000	ug/kg C U	13.000	ug/kg C U
Tetrachloroethene	11.000	ug/kg C U	12.000	ug/kg C U	13.000	ug/kg C U
Toluene	31.000	ug/kg C -	1.000	ug/kg C J	13.000	ug/kg C U
Trichloroethene	11.000	ug/kg C U	12.000	ug/kg C U	13.000	ug/kg C U
Vinyl Acetate	11.000	ug/kg C U	12.000	ug/kg C U	13.000	ug/kg C UJ
Vinyl chloride	11.000	ug/kg C U	12.000	ug/kg C UJ	13.000	ug/kg C U
Xylenes, Total	11.000	ug/kg C U	12.000	ug/kg C U	13.000	ug/kg C U
cis-1,3-Dichloropropene	11.000	ug/kg C U	12.000	ug/kg C U	13.000	ug/kg C U
trans-1,3-Dichloropropene	11.000	ug/kg C U	12.000	ug/kg C U	13.000	ug/kg C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	380.000	ug/kg C U	400.000	ug/kg C U	450.000	ug/kg C U
1,2-Dichlorobenzene	380.000	ug/kg C U	400.000	ug/kg C U	450.000	ug/kg C U
1,2-Diphenylhydrazine	NA		400.000	ug/kg C UJ	NA	
1,3-Dichlorobenzene	380.000	ug/kg C U	400.000	ug/kg C U	450.000	ug/kg C U
1,4-Dichlorobenzene	380.000	ug/kg C U	400.000	ug/kg C U	450.000	ug/kg C U
2,4,5-Trichlorophenol	910.000	ug/kg C U	1900.000	ug/kg C U	1100.000	ug/kg C U
2,4,6-Trichlorophenol	380.000	ug/kg C U	400.000	ug/kg C U	450.000	ug/kg C U
2,4-Dichlorophenol	380.000	ug/kg C U	400.000	ug/kg C U	450.000	ug/kg C U
2,4-Dimethylphenol	380.000	ug/kg C U	400.000	ug/kg C U	450.000	ug/kg C U
2,4-Dinitrophenol	910.000	ug/kg C U	1900.000	ug/kg C UJ	1100.000	ug/kg C UJ
2,4-Dinitrotoluene	380.000	ug/kg C U	400.000	ug/kg C U	450.000	ug/kg C U
2,6-Dinitrotoluene	380.000	ug/kg C U	400.000	ug/kg C U	450.000	ug/kg C U
2-Chloronaphthalene	380.000	ug/kg C U	400.000	ug/kg C U	450.000	ug/kg C U
2-Chlorophenol	380.000	ug/kg C U	400.000	ug/kg C U	450.000	ug/kg C U
2-Methylnaphthalene	380.000	ug/kg C U	400.000	ug/kg C U	450.000	ug/kg C U
2-Methylphenol	380.000	ug/kg C U	400.000	ug/kg C U	450.000	ug/kg C U
2-Nitroaniline	910.000	ug/kg C U	1900.000	ug/kg C UJ	1100.000	ug/kg C U
2-Nitrophenol	380.000	ug/kg C U	400.000	ug/kg C UJ	450.000	ug/kg C U

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0000700

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
3,3'-Dichlorobenzidine	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
3-Nitroaniline	910.000	ug/kg	C	U	1900.000	ug/kg	C	U	1100.000	ug/kg	C	U
4,6-Dinitro-2-methylphenol	910.000	ug/kg	C	U	1900.000	ug/kg	C	R	1100.000	ug/kg	C	R
4-Bromophenyl phenyl ether	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	UJ
4-Chloro-3-methylphenol	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
4-Chlorophenylphenyl ether	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
4-Methylphenol	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
4-Nitroaniline	910.000	ug/kg	C	U	1900.000	ug/kg	C	U	1100.000	ug/kg	C	R
4-Nitrophenol	910.000	ug/kg	C	U	1900.000	ug/kg	C	U	1100.000	ug/kg	C	U
Acenaphthene	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Acenaphthylene	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Anthracene	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Benzo(a)anthracene	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Benzo(a)pyrene	380.000	ug/kg	C	U	3.000	ug/kg	C	J	450.000	ug/kg	C	U
Benzo(b)fluoranthene	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Benzo(g,h,i)perylene	380.000	ug/kg	C	UJ	400.000	ug/kg	C	U	76.000	ug/kg	C	J
Benzo(k)fluoranthene	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	UJ
Benzoic acid	1800.000	ug/kg	C	U	1900.000	ug/kg	C	UJ	2200.000	ug/kg	C	UJ
Benzyl alcohol	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Butyl benzyl phthalate	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Carbazole	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Chrysene	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Di-n-butyl phthalate	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Di-n-octyl phthalate	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Dibenzo(a,h)anthracene	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Dibenzofuran	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Diethyl phthalate	380.000	ug/kg	C	UJ	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Dimethyl phthalate	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Fluoranthene	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Fluorene	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Hexachlorobenzene	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Hexachlorobutadiene	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Hexachlorocyclopentadiene	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	UJ
Hexachloroethane	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Indeno(1,2,3-cd)pyrene	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Isophorone	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
N-Nitroso-di-n-propylamine	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	UJ
N-Nitrosodimethylamine	NA				400.000	ug/kg	C	U	NA			
N-Nitrosodiphenylamine	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Naphthalene	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Nitrobenzene	380.000	ug/kg	C	U	400.000	ug/kg	C	U	450.000	ug/kg	C	U
Pentachlorophenol	910.000	ug/kg	C	U	1900.000	ug/kg	C	U	1100.000	ug/kg	C	UJ

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000710

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1977	1978	1978			
SAMPLE NUMBER	110579	110406	112584			
SAMPLING DATE	16.5-18.5 04/07/93	0.5-1 03/24/93	9.5-11 04/16/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Phenanthrene	380.000	ug/kg C U	400.000	ug/kg C U	450.000	ug/kg C U
Phenol	380.000	ug/kg C U	400.000	ug/kg C U	450.000	ug/kg C U
Pyrene	380.000	ug/kg C U	400.000	ug/kg C U	450.000	ug/kg C U
Tributyl phosphate	NA		400.000	ug/kg C U	NA	
bis(2-Chloroethoxy)methane	380.000	ug/kg C U	400.000	ug/kg C U	450.000	ug/kg C U
bis(2-Chloroethyl)ether	380.000	ug/kg C U	400.000	ug/kg C U	450.000	ug/kg C U
bis(2-Chloroisopropyl) ether	380.000	ug/kg C U	400.000	ug/kg C U	450.000	ug/kg C UJ
bis(2-Ethylhexyl) phthalate	380.000	ug/kg C U	46.000	ug/kg C J	450.000	ug/kg C U
p-Chloroaniline	380.000	ug/kg C U	400.000	ug/kg C U	450.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	4.100	ug/kg C U	4.000	ug/kg C U	4.200	ug/kg C U
4,4'-DDE	4.100	ug/kg C U	4.000	ug/kg C U	4.200	ug/kg C U
4,4'-DDT	4.100	ug/kg C UJ	4.000	ug/kg C U	4.200	ug/kg C U
Aldrin	2.100	ug/kg C U	2.100	ug/kg C U	2.200	ug/kg C U
Aroclor-1016	41.000	ug/kg C U	40.000	ug/kg C U	42.000	ug/kg C U
Aroclor-1221	83.000	ug/kg C U	81.000	ug/kg C U	86.000	ug/kg C U
Aroclor-1232	41.000	ug/kg C U	40.000	ug/kg C U	42.000	ug/kg C U
Aroclor-1242	41.000	ug/kg C U	40.000	ug/kg C U	42.000	ug/kg C U
Aroclor-1248	41.000	ug/kg C U	40.000	ug/kg C U	42.000	ug/kg C U
Aroclor-1254	41.000	ug/kg C U	47.000	ug/kg C U	42.000	ug/kg C U
Aroclor-1260	41.000	ug/kg C U	40.000	ug/kg C U	42.000	ug/kg C U
Dieldrin	4.100	ug/kg C U	4.000	ug/kg C U	4.200	ug/kg C U
Endosulfan II	4.100	ug/kg C U	4.000	ug/kg C U	4.200	ug/kg C U
Endosulfan sulfate	4.100	ug/kg C U	4.000	ug/kg C U	4.200	ug/kg C U
Endosulfan-I	2.100	ug/kg C U	2.100	ug/kg C U	2.200	ug/kg C U
Endrin	4.100	ug/kg C U	4.000	ug/kg C U	4.200	ug/kg C U
Endrin aldehyde	4.100	ug/kg C U	4.000	ug/kg C U	4.200	ug/kg C U
Endrin ketone	4.100	ug/kg C U	4.000	ug/kg C U	4.200	ug/kg C U
Heptachlor	2.100	ug/kg C U	2.100	ug/kg C U	2.200	ug/kg C U
Heptachlor epoxide	2.100	ug/kg C U	2.100	ug/kg C U	2.200	ug/kg C U
Methoxychlor	21.000	ug/kg C U	21.000	ug/kg C U	22.000	ug/kg C U
Toxaphene	210.000	ug/kg C U	210.000	ug/kg C U	220.000	ug/kg C U
alpha-BHC	2.100	ug/kg C U	2.100	ug/kg C U	2.200	ug/kg C U
alpha-Chlordane	2.100	ug/kg C U	2.100	ug/kg C U	2.200	ug/kg C U
beta-BHC	2.100	ug/kg C U	2.100	ug/kg C U	2.200	ug/kg C U
delta-BHC	2.100	ug/kg C U	2.100	ug/kg C U	2.200	ug/kg C U
gamma-BHC (Lindane)	2.100	ug/kg C U	2.100	ug/kg C U	2.200	ug/kg C U
gamma-Chlordane	2.100	ug/kg C U	2.100	ug/kg C U	2.200	ug/kg C U

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ETL2000

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1978		SF-SS-19	
SAMPLE NUMBER	112588		110369	
	13.5-15		0.5-1	
SAMPLING DATE	04/16/93		03/22/93	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	
Inorganics				
Aluminum	5310.000	mg/kg C -	7510.000	mg/kg C -
Antimony	0.770	mg/kg C UJ	0.940	mg/kg C R
Arsenic	6.700	mg/kg C -	4.400	mg/kg C -
Barium	13.600	mg/kg C -	48.200	mg/kg C -
Beryllium	1.500	mg/kg C U	0.510	mg/kg C -
Cadmium	3.900	mg/kg C U	0.940	mg/kg C U
Calcium	252000.000	mg/kg C -	1080000.000	mg/kg C -
Chromium	7.700	mg/kg C U	10.100	mg/kg C -
Cobalt	7.700	mg/kg C U	5.600	mg/kg C -
Copper	7.700	mg/kg C U	13.500	mg/kg C -
Cyanide	0.110	mg/kg C U	0.120	mg/kg C U
Iron	12000.000	mg/kg C -	15800.000	mg/kg C -
Lead	4.900	mg/kg C -	60.300	mg/kg C J
Magnesium	11500.000	mg/kg C -	24700.000	mg/kg C J
Manganese	973.000	mg/kg C -	468.000	mg/kg C -
Mercury	0.100	mg/kg C U	0.120	mg/kg C U
Molybdenum	15.400	mg/kg C U	4.500	mg/kg C -
Nickel	15.400	mg/kg C U	14.900	mg/kg C -
Potassium	1100.000	mg/kg C -	1270.000	mg/kg C -
Selenium	0.390	mg/kg C U	0.460	mg/kg C UJ
Silicon	303.000	mg/kg C -	515.000	mg/kg C J
Silver	7.700	mg/kg C U	4.500	mg/kg C -
Sodium	138.000	mg/kg C -	153.000	mg/kg C -
Thallium	0.390	mg/kg C U	0.460	mg/kg C U
Vanadium	11.800	mg/kg C -	19.800	mg/kg C -
Zinc	32.300	mg/kg C -	37.300	mg/kg C -
Volatile Organics				
1,1,1-Trichloroethane	11.000	ug/kg C U	6.000	ug/kg C U
1,1,2,2-Tetrachloroethane	11.000	ug/kg C U	6.000	ug/kg C U
1,1,2-Trichloroethane	11.000	ug/kg C U	6.000	ug/kg C U
1,1-Dichloroethane	11.000	ug/kg C U	6.000	ug/kg C UJ
1,1-Dichloroethene	11.000	ug/kg C U	6.000	ug/kg C U
1,2-Dichloroethane	11.000	ug/kg C U	6.000	ug/kg C U
1,2-Dichloroethene	11.000	ug/kg C U	6.000	ug/kg C U
1,2-Dichloropropane	11.000	ug/kg C U	6.000	ug/kg C U
2-Butanone	11.000	ug/kg C U	11.000	ug/kg C UJ
2-Hexanone	11.000	ug/kg C UJ	11.000	ug/kg C U
4-Methyl-2-pentanone	11.000	ug/kg C UJ	11.000	ug/kg C U
Acetone	3.000	ug/kg C J	11.000	ug/kg C U
Benzene	11.000	ug/kg C U	6.000	ug/kg C U

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January 21, 1995

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1978	SF-SS-19
SAMPLE NUMBER	112588	110369
	13.5-15	0.5-1
SAMPLING DATE	04/16/93	03/22/93
CHEMICAL PARAMETERS	RESULTS UNITS L VQ	RESULTS UNITS L VQ
<u>Volatile Organics</u>		
Bromodichloromethane	11.000 ug/kg C U	6.000 ug/kg C U
Bromoform	11.000 ug/kg C U	6.000 ug/kg C U
Bromomethane	11.000 ug/kg C UJ	11.000 ug/kg C UJ
Carbon Tetrachloride	11.000 ug/kg C U	6.000 ug/kg C U
Carbon disulfide	11.000 ug/kg C U	6.000 ug/kg C U
Chlorobenzene	11.000 ug/kg C U	6.000 ug/kg C U
Chloroethane	11.000 ug/kg C UJ	11.000 ug/kg C UJ
Chloroform	11.000 ug/kg C U	6.000 ug/kg C U
Chloromethane	11.000 ug/kg C U	11.000 ug/kg C U
Dibromochloromethane	11.000 ug/kg C U	6.000 ug/kg C U
Ethylbenzene	11.000 ug/kg C U	6.000 ug/kg C U
Methylene chloride	11.000 ug/kg C U	11.000 ug/kg C UJ
Styrene	11.000 ug/kg C U	6.000 ug/kg C U
Tetrachloroethene	11.000 ug/kg C U	6.000 ug/kg C U
Toluene	11.000 ug/kg C U	6.000 ug/kg C U
Trichloroethene	11.000 ug/kg C U	6.000 ug/kg C U
Vinyl Acetate	11.000 ug/kg C UJ	11.000 ug/kg C U
Vinyl chloride	11.000 ug/kg C U	11.000 ug/kg C U
Xylenes, Total	11.000 ug/kg C U	6.000 ug/kg C U
cis-1,3-Dichloropropene	11.000 ug/kg C U	6.000 ug/kg C U
trans-1,3-Dichloropropene	11.000 ug/kg C U	6.000 ug/kg C U
<u>Semivolatile Organics</u>		
1,2,4-Trichlorobenzene	370.000 ug/kg C U	420.000 ug/kg C U
1,2-Dichlorobenzene	370.000 ug/kg C U	420.000 ug/kg C U
1,2-Diphenylhydrazine	NA	420.000 ug/kg C U
1,3-Dichlorobenzene	370.000 ug/kg C U	420.000 ug/kg C U
1,4-Dichlorobenzene	370.000 ug/kg C U	420.000 ug/kg C U
2,4,5-Trichlorophenol	910.000 ug/kg C U	1000.000 ug/kg C U
2,4,6-Trichlorophenol	370.000 ug/kg C U	420.000 ug/kg C U
2,4-Dichlorophenol	370.000 ug/kg C U	420.000 ug/kg C U
2,4-Dimethylphenol	370.000 ug/kg C U	420.000 ug/kg C U
2,4-Dinitrophenol	910.000 ug/kg C UJ	2000.000 ug/kg C UJ
2,4-Dinitrotoluene	370.000 ug/kg C U	420.000 ug/kg C U
2,6-Dinitrotoluene	370.000 ug/kg C U	420.000 ug/kg C U
2-Chloronaphthalene	370.000 ug/kg C U	420.000 ug/kg C U
2-Chlorophenol	370.000 ug/kg C U	420.000 ug/kg C U
2-Methylnaphthalene	370.000 ug/kg C U	420.000 ug/kg C U
2-Methylphenol	370.000 ug/kg C U	420.000 ug/kg C U
2-Nitroaniline	910.000 ug/kg C U	1000.000 ug/kg C U
2-Nitrophenol	370.000 ug/kg C U	420.000 ug/kg C U

F-6-138

000-713

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1978		SF-SS-19
SAMPLE NUMBER	112588		110369
	13.5-15		0.5-1
SAMPLING DATE	04/16/93		03/22/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
3,3'-Dichlorobenzidine	370.000	ug/kg C U	420.000
3-Nitroaniline	910.000	ug/kg C U	1000.000
4,6-Dinitro-2-methylphenol	910.000	ug/kg C R	1000.000
4-Bromophenyl phenyl ether	370.000	ug/kg C UJ	420.000
4-Chloro-3-methylphenol	370.000	ug/kg C U	420.000
4-Chlorophenylphenyl ether	370.000	ug/kg C U	420.000
4-Methylphenol	370.000	ug/kg C U	420.000
4-Nitroaniline	910.000	ug/kg C R	1000.000
4-Nitrophenol	910.000	ug/kg C U	1000.000
Acenaphthalene	370.000	ug/kg C U	420.000
Acenaphthylene	370.000	ug/kg C U	420.000
Anthracene	370.000	ug/kg C U	420.000
Benzo(a)anthracene	370.000	ug/kg C U	97.000
Benzo(a)pyrene	370.000	ug/kg C U	110.000
Benzo(b)fluoranthene	370.000	ug/kg C U	110.000
Benzo(g,h,i)perylene	370.000	ug/kg C UJ	79.000
Benzo(k)fluoranthene	370.000	ug/kg C U	110.000
Benzoic acid	1800.000	ug/kg C UJ	2000.000
Benzyl alcohol	370.000	ug/kg C U	420.000
Butyl benzyl phthalate	370.000	ug/kg C U	420.000
Carbazole	370.000	ug/kg C U	420.000
Chrysene	370.000	ug/kg C U	140.000
D1-n-butyl phthalate	370.000	ug/kg C U	420.000
D1-n-octyl phthalate	370.000	ug/kg C U	420.000
Dibeno(a,h)anthracene	370.000	ug/kg C U	420.000
Dibenzofuran	370.000	ug/kg C U	420.000
Diethyl phthalate	370.000	ug/kg C U	420.000
Dimethyl phthalate	370.000	ug/kg C U	420.000
Fluoranthene	370.000	ug/kg C U	210.000
Fluorene	370.000	ug/kg C U	420.000
Hexachlorobenzene	370.000	ug/kg C U	420.000
Hexachlorobutadiene	370.000	ug/kg C U	420.000
Hexachlorocyclopentadiene	370.000	ug/kg C UJ	420.000
Hexachloroethane	370.000	ug/kg C U	420.000
Indeno(1,2,3-cd)pyrene	370.000	ug/kg C U	77.000
Isophorone	370.000	ug/kg C U	420.000
N-Nitroso-di-n-propylamine	370.000	ug/kg C UJ	420.000
N-Nitrosodimethylamine	NA		420.000
N-Nitrosodiphenylamine	370.000	ug/kg C U	420.000
Naphthalene	370.000	ug/kg C U	420.000
Nitrobenzene	370.000	ug/kg C U	420.000
Pentachlorophenol	910.000	ug/kg C UJ	1000.000

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000714

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FEMP-OU02-6 FINAL
January 21, 1995

TABLE F-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1978		SF-SS-19					
SAMPLE NUMBER	112588		110369					
	13.5-15		0.5-1					
SAMPLING DATE	04/16/93		03/22/93					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>								
Phenanthrene	370.000	ug/kg	C	U	80.000	ug/kg	C	J
Phenol	370.000	ug/kg	C	U	420.000	ug/kg	C	U
Pyrene	370.000	ug/kg	C	U	170.000	ug/kg	C	J
Tributyl phosphate	NA				420.000	ug/kg	C	U
bis(2-Chloroethoxy)methane	370.000	ug/kg	C	U	420.000	ug/kg	C	U
bis(2-Chloroethyl)ether	370.000	ug/kg	C	U	420.000	ug/kg	C	U
bis(2-Chloroisopropyl) ether	370.000	ug/kg	C	U	420.000	ug/kg	C	U
bis(2-Ethylhexyl) phthalate	370.000	ug/kg	C	U	88.000	ug/kg	C	J
p-Chloroaniline	370.000	ug/kg	C	U	420.000	ug/kg	C	U
<u>Pesticide Organics/PCBs</u>								
4,4'-DDD	3.700	ug/kg	C	U	4.200	ug/kg	C	U
4,4'-DDE	3.700	ug/kg	C	U	4.200	ug/kg	C	U
4,4'-DDT	3.700	ug/kg	C	U	4.200	ug/kg	C	U
Aldrin	1.900	ug/kg	C	U	2.200	ug/kg	C	U
Aroclor-1016	37.000	ug/kg	C	U	42.000	ug/kg	C	U
Aroclor-1221	76.000	ug/kg	C	U	85.000	ug/kg	C	U
Aroclor-1232	37.000	ug/kg	C	U	42.000	ug/kg	C	U
Aroclor-1242	37.000	ug/kg	C	U	42.000	ug/kg	C	U
Aroclor-1248	37.000	ug/kg	C	U	42.000	ug/kg	C	U
Aroclor-1254	37.000	ug/kg	C	U	42.000	ug/kg	C	U
Aroclor-1260	37.000	ug/kg	C	U	89.000	ug/kg	C	J
Dieldrin	3.700	ug/kg	C	U	4.200	ug/kg	C	U
Endosulfan II	3.700	ug/kg	C	U	4.200	ug/kg	C	U
Endosulfan sulfate	3.700	ug/kg	C	U	4.200	ug/kg	C	U
Endosulfan-I	1.900	ug/kg	C	U	2.200	ug/kg	C	U
Endrin	3.700	ug/kg	C	U	4.200	ug/kg	C	U
Endrin aldehyde	3.700	ug/kg	C	U	4.200	ug/kg	C	U
Endrin ketone	3.700	ug/kg	C	U	4.200	ug/kg	C	U
Heptachlor	1.900	ug/kg	C	U	2.200	ug/kg	C	U
Heptachlor epoxide	1.900	ug/kg	C	U	2.200	ug/kg	C	U
Methoxychlor	19.000	ug/kg	C	U	22.000	ug/kg	C	U
Toxaphene	190.000	ug/kg	C	U	220.000	ug/kg	C	U
alpha-BHC	1.900	ug/kg	C	U	2.200	ug/kg	C	U
alpha-Chlordane	1.900	ug/kg	C	U	2.200	ug/kg	C	U
beta-BHC	1.900	ug/kg	C	U	2.200	ug/kg	C	U
delta-BHC	1.900	ug/kg	C	U	2.200	ug/kg	C	U
gamma-BHC (Lindane)	1.900	ug/kg	C	U	2.200	ug/kg	C	U
gamma-Chlordane	1.900	ug/kg	C	U	2.200	ug/kg	C	U

F-6140

0007415

TABLE F-6B
SOUTH FIELD
TENTATIVELY IDENTIFIED COMPOUNDS
SEDIMENT AND SUBSURFACE SOIL

Sample Number	Sample Location	Media	Parameter	Result	Units
110425	SF-SD-01	SD	hexanoic acid	130	ug/kg
110425	SF-SD-01	SD	hexanal, 3-methyl-	110	ug/kg
110425	SF-SD-01	SD	tetradecanoic acid	230	ug/kg
110425	SF-SD-01	SD	tritetracontane	130	ug/kg
110428	SF-SD-03	SD	1,2-benzenedicarboxylic acid	240	ug/kg
110428	SF-SD-03	SD	14-pentadecenoic acid	310	ug/kg
110428	SF-SD-03	SD	tetradecanoic acid	830	ug/kg
110428	SF-SD-03	SD	9-octadecenoic acid (z)-	140	ug/kg
110428	SF-SD-03	SD	hexanedioic acid, dioctyl es	140	ug/kg
110428	SF-SD-03	SD	tritetracontane	210	ug/kg
110428	SF-SD-03	SD	tritetracontane	170	ug/kg
110428	SF-SD-03	SD	tritetracontane	220	ug/kg
110428	SF-SD-03	SD	tritetracontane	130	ug/kg
110428	SF-SD-03	SD	tritetracontane	1000	ug/kg
110428	SF-SD-03	SD	tritetracontane	510	ug/kg
110430	SF-SD-02	SD	tetradecanoic acid	350	ug/kg
110430	SF-SD-02	SD	tritetracontane	160	ug/kg
110430	SF-SD-02	SD	tritetracontane	180	ug/kg
110430	SF-SD-02	SD	tritetracontane	240	ug/kg
110430	SF-SD-02	SD	tritetracontane	170	ug/kg
110430	SF-SD-02	SD	tritetracontane	200	ug/kg
110430	SF-SD-02	SD	cyclohexanol, 3-ethenyl-3-me	110	ug/kg
110430	SF-SD-02	SD	tritetracontane	400	ug/kg
110430	SF-SD-02	SD	tritetracontane	970	ug/kg
110430	SF-SD-02	SD	eicosane, 2-methyl-	310	ug/kg
110327	SF-SB-08	SB	propanoic acid, 2-methyl-,	190	ug/kg
110327	SF-SB-08	SB	hexanedioic acid, mono(2-eth	17000	ug/kg
110339	SF-SB-06	SB	1-hepten-3-ol	10000	ug/kg
110339	SF-SB-06	SB	1,2,3,4-butanetetrol, tetra	13000	ug/kg
110339	SF-SB-06	SB	1-propanamine	14000	ug/kg
110339	SF-SB-06	SB	2,6-piperazinedione, 4-benzo	120	ug/kg
110339	SF-SB-06	SB	propanoic acid, 2-methyl-,	220	ug/kg
110339	SF-SB-06	SB	tetradecanoic acid	180	ug/kg
110339	SF-SB-06	SB	hexanedioic acid, mono(2-eth	310	ug/kg
110339	SF-SB-06	SB	stigmast-5-en-3-ol, (3.beta.)-	100	ug/kg
110343	SF-SS-16	SB	1-propanamine	27000	ug/kg
110343	SF-SS-16	SB	2-heptanone, 6-methyl-5-meth	160	ug/kg
110343	SF-SS-16	SB	benzenecarbothioic acid	130	ug/kg
110343	SF-SS-16	SB	propanoic acid, 2-methyl-,	110	ug/kg
110343	SF-SS-16	SB	tetradecanoic acid	180	ug/kg
110343	SF-SS-16	SB	biphenyl, 2,4,4',5-tetrachlo	100	ug/kg
110343	SF-SS-16	SB	hexanedioic acid, dioctyl es	10000	ug/kg
110343	SF-SS-16	SB	1-dotriacontanol	92	ug/kg
110343	SF-SS-16	SB	benzo-j-fluoranthene	98	ug/kg
110343	SF-SS-16	SB	5.alpha.-stigmast-9(11)-en-3	90	ug/kg
110362	SF-SB-04	SB	7-oxabicyclo 4.1.0 heptane	190	ug/kg
110362	SF-SB-04	SB	propanoic acid, 2-methyl-,	88	ug/kg
110362	SF-SB-04	SB	tetradecanoic acid	85	ug/kg
110362	SF-SB-04	SB	hexanedioic acid, mono(2-eth	90	ug/kg
110362	SF-SB-04	SB	eicosane, 2-methyl-	200	ug/kg
110369	SF-SS-19	SB	hexanedioic acid, mono(2-eth	160	ug/kg
110369	SF-SS-19	SB	tetradecanoic acid	270	ug/kg
110369	SF-SS-19	SB	hexanedioic acid, mono(2-eth	110	ug/kg
110369	SF-SS-19	SB	hexanedioic acid, dioctyl es	16000	ug/kg
110369	SF-SS-19	SB	arsenosous acid, tris (trimethy	110	ug/kg

TABLE F-6B
SOUTH FIELD
TENTATIVELY IDENTIFIED COMPOUNDS
SEDIMENT AND SUBSURFACE SOIL

Sample Number	Sample Location	Media	Parameter	Result	Units
110392	SF-SB-05	SB	cyclobutanone, 2-methyl-2-ox	230	ug/kg
110392	SF-SB-05	SB	2,4,6-trimethyl-1-nonene	370	ug/kg
110392	SF-SB-05	SB	1-hexanol, 2-ethyl-	110	ug/kg
110392	SF-SB-05	SB	2-pentanone, 4-hydroxy-4-met	120	ug/kg
110392	SF-SB-05	SB	2h-1-benzopyran-2-one	630	ug/kg
110392	SF-SB-05	SB	tetradecanoic acid	380	ug/kg
110392	SF-SB-05	SB	1,3-dioxolane, 4-ethyl-5-oct	140	ug/kg
110392	SF-SB-05	SB	arsenous acid, tris(trimethyl	170	ug/kg
110392	SF-SB-05	SB	eicosane, 2-methyl-	170	ug/kg
110392	SF-SB-05	SB	3-isopropoxy-1,1,1,5,5-hex	150	ug/kg
110392	SF-SB-05	SB	arsenous acid, tris(trimethyl	420	ug/kg
110392	SF-SB-05	SB	arsenous acid, tris(trimethyl	580	ug/kg
110392	SF-SB-05	SB	arsenous acid, tris(trimethyl	110	ug/kg
110396	SF-SB-05	SB	tetradecanoic acid	110	ug/kg
110396	SF-SB-05	SB	hexanedioic acid, dioctyl es	15000	ug/kg
110396	SF-SB-05	SB	eicosane, 2-methyl-	140	ug/kg
110405	SF-SB-03	SB	propanoic acid, 2-methyl-,	94	ug/kg
110405	SF-SB-03	SB	heptadecane, 2,6,10,15-tetra	120	ug/kg
110405	SF-SB-03	SB	tritetraccontane	240	ug/kg
110413	SF-SB-10	SB	hexanedioic acid, dioctyl es	170	ug/kg
110415	SF-SB-11	SB	1,2-benzenedicarboxylic acid	100	ug/kg
110415	SF-SB-11	SB	tritetraccontane	86	ug/kg
110415	SF-SB-11	SB	tritetraccontane	110	ug/kg
110415	SF-SB-11	SB	tritetraccontane	120	ug/kg
112696	1967	SB	cyclopentane, methyl-	10	ug/kg
112696	1967	SB	hexane (dot)	8	ug/kg
112731	1967	SB	2-hexanone, 6-(acetoxy)-	1700	ug/kg
112731	1967	SB	3-hexen-2-one, 5-methyl-	870	ug/kg
112731	1967	SB	2h-pyran-2,3-diol, tetrahydr	1600	ug/kg
112731	1967	SB	hydroxylamine, o-pentyl-	280	ug/kg
112731	1967	SB	hexanedioic acid, mono(2-eth	82	ug/kg
112731	1967	SB	pentanamide	180	ug/kg
112731	1967	SB	tetratetraccontane	200	ug/kg
112731	1967	SB	hexadecanoic acid, 1-(2-A	790	ug/kg
112731	1967	SB	hexanedioic acid, dioctyl es	19000	ug/kg
112731	1967	SB	tetratetraccontane	430	ug/kg
112731	1967	SB	tetratetraccontane	380	ug/kg
112731	1967	SB	tetratetraccontane	270	ug/kg
112731	1967	SB	tritetraccontane	100	ug/kg
112731	1967	SB	eicosane, 2-methyl-	190	ug/kg
112737	1968	SB	cyclopentane, methyl	6	ug/kg
112737	1968	SB	2-hexanone, 6-(acetoxy)-	1800	ug/kg
112737	1968	SB	3-hexen-2-one, 5-methyl-	1500	ug/kg
112737	1968	SB	2h-pyran-2,3-diol, tetrahydr	1600	ug/kg
112737	1968	SB	3-octadecanone	170	ug/kg
112737	1968	SB	tritetraccontane	180	ug/kg
112737	1968	SB	tritetraccontane	380	ug/kg
112737	1968	SB	hexanedioic acid, dioctyl es	18000	ug/kg
112737	1968	SB	tritetraccontane	390	ug/kg
112737	1968	SB	tritetraccontane	440	ug/kg
112737	1968	SB	tritetraccontane	340	ug/kg
112737	1968	SB	dotriaccontane	220	ug/kg
112763	1965	SB	2h-pyran-2,3-diol, tetrahydr	1700	ug/kg
112763	1965	SB	ethene, 1,1'-oxybis-	170	ug/kg
112763	1965	SB	ethanone, 1-oxiranyl-	160	ug/kg
112835	1968	SB	2-hexanone, 6-(acetoxy)-	2300	ug/kg
112835	1968	SB	3-hexen-2-one, 5-methyl-	2000	ug/kg
112835	1968	SB	pentane, 1-propoxy-	160	ug/kg

TABLE F-6B
SOUTH FIELD
TENTATIVELY IDENTIFIED COMPOUNDS
SEDIMENT AND SUBSURFACE SOIL

Sample Number	Sample Location	Media	Parameter	Result	Units
112835	1968	SB	2h-pyran-2,3-diol, tetrahydr	2800	ug/kg
112835	1968	SB	hydroxylamine, o-pentyl-	450	ug/kg
112835	1968	SB	hexanedioic acid, dioctyl es	17000	ug/kg
112835	1968	SB	tritetracontane	170	ug/kg
112835	1968	SB	tritetracontane	160	ug/kg
112835	1968	SB	tritetracontane	130	ug/kg
112835	1968	SB	octadecane, 3-ethyl-5-(2-eth	160	ug/kg
112849	1968	SB	octane, 4-methyl-	230	ug/kg
112849	1968	SB	2-hexanone, 6-(acetoxy)-	1500	ug/kg
112849	1968	SB	3-hexen-2-one, 5-methyl-	1100	ug/kg
112849	1968	SB	2h-pyran-2,3-diol, tetrahydr	1000	ug/kg
112849	1968	SB	hydroxylamine, o-pentyl-	320	ug/kg
112849	1968	SB	hexadecane, 1-iodo-	150	ug/kg
112849	1968	SB	hexanedioic acid, dioctyl es	18000	ug/kg
112849	1968	SB	tetratetracontane	300	ug/kg
112849	1968	SB	tetratetracontane	270	ug/kg
112849	1968	SB	tetratetracontane	200	ug/kg
112997	1941	SB	azacyclotridecan-2-one	22	ug/kg
113104	TRENCH 1	SB	2-hexanone, 6-(acetoxy)-	230	ug/kg
113104	TRENCH 1	SB	1,2-benzenedicarboxylic acid	190	ug/kg
113104	TRENCH 1	SB	tritetracontane	83	ug/kg
113104	TRENCH 1	SB	tetratetracontane	190	ug/kg
113104	TRENCH 1	SB	tritetracontane	170	ug/kg
113104	TRENCH 1	SB	tritetracontane	150	ug/kg
113104	TRENCH 1	SB	dotriaccontane	110	ug/kg
113718	TRENCH 1	SB	1,1,2-trichloro-1,2,2-triflu	700	ug/kg
113718	TRENCH 1	SB	heptadecane, 2,6,10,15-tetra	150	ug/kg
113718	TRENCH 1	SB	nonadecane	200	ug/kg
113718	TRENCH 1	SB	pentatriaccontane	310	ug/kg
113718	TRENCH 1	SB	tritetracontane	320	ug/kg
113718	TRENCH 1	SB	tetratetracontane	210	ug/kg
113718	TRENCH 1	SB	tetratetracontane	330	ug/kg
113718	TRENCH 1	SB	dotriaccontane	190	ug/kg
113718	TRENCH 1	SB	dotriaccontane	210	ug/kg
113718	TRENCH 1	SB	dotriaccontane	210	ug/kg
113718	TRENCH 1	SB	2,5-furandione, 3-(dodecetyl	150	ug/kg
113718	TRENCH 1	SB	4-hexenoic acid, 3-methyl-2,	230	ug/kg
113718	TRENCH 1	SB	baccharane	170	ug/kg
113718	TRENCH 1	SB	cyclohexanol, 3-ethenyl-3-me	290	ug/kg
113718	TRENCH 1	SB	d:a-friedooleanan-7-ol, (7.a	180	ug/kg
113722	TRENCH 4	SB	benzene, 1,1'-(1,2-ethynedi	400	ug/kg

SD - sediment

SB - subsurface soil

TABLE F-7A
SOUTH FIELD
CIS SUBSURFACE SOIL RESULTS RADIOLOGICAL DATA
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Radionuclide ^a	Qualifier ^b	Activity Concentrations (pCi/g)	Uncertainty (pCi/g)
BOREHOLE 24-01			
Cesium-137		NOT ANALYZED	
Neptunium-237		NOT ANALYZED	
Lead-210		28.00	2.00
Plutonium-238		NOT ANALYZED	
Plutonium-239/240		NOT ANALYZED	
Radium-226		9.00	1.00
Radium-228		1.60	0.80
Ruthenium-106		NOT ANALYZED	
Strontium-90		NOT ANALYZED	
Technetium-99		NOT ANALYZED	
Thorium-228		0.10	0.10
Thorium-230		9.60	0.50
Thorium-232	< ^c	0.10	NA ^d
Uranium-234		9.10	0.40
Uranium-235		0.40	0.10
Uranium-238		19.00	1.00
BOREHOLE 24-02			
Cesium-137		NOT ANALYZED	
Neptunium-237		NOT ANALYZED	
Lead-210		3.00	1.00
Plutonium-238		NOT ANALYZED	
Plutonium-239/240		NOT ANALYZED	
Radium-226		1.20	0.40
Radium-228		0.90	0.60
Ruthenium-106		NOT ANALYZED	
Strontium-90		NOT ANALYZED	
Technetium-99		NOT ANALYZED	
Thorium-228		0.20	0.10
Thorium-230		0.30	0.10
Thorium-232		0.20	0.10
Uranium-234		2.00	0.20
Uranium-235		0.09	0.07
Uranium-238		4.90	0.40

See footnotes at end of table

TABLE F-7A
(Continued)

Radionuclide ^a	Qualifier ^b	Activity Concentrations (pCi/g)	Uncertainty (pCi/g)
BOREHOLE 24-03			
Cesium-137		NOT ANALYZED	
Neptunium-237		NOT ANALYZED	
Lead-210		2.00	1.00
Plutonium-238		NOT ANALYZED	
Plutonium-239/240		NOT ANALYZED	
Radium-226		0.80	0.30
Radium-228		0.60	0.40
Ruthenium-106		NOT ANALYZED	
Strontium-90		NOT ANALYZED	
Technetium-99		NOT ANALYZED	
Thorium-228	<	0.10	NA
Thorium-230		0.10	0.10
Thorium-232	<	0.10	NA
Uranium-234		8.20	0.40
Uranium-235		0.50	0.10
Uranium-238		24.00	1.00
BOREHOLE 24-04			
Cesium-137		NOT ANALYZED	
Neptunium-237		NOT ANALYZED	
Lead-210		4.00	1.00
Plutonium-238		NOT ANALYZED	
Plutonium-239/240		NOT ANALYZED	
Radium-226		2.10	0.50
Radium-228		2.20	0.70
Ruthenium-106		NOT ANALYZED	
Strontium-90		NOT ANALYZED	
Technetium-99		NOT ANALYZED	
Thorium-228		0.30	0.20
Thorium-230		0.50	0.20
Thorium-232	<	0.10	NA
Uranium-234		5.80	0.30
Uranium-235		0.30	0.10
Uranium-238		9.20	0.40
BOREHOLE 24-05			
Cesium-137		NOT ANALYZED	
Neptunium-237		NOT ANALYZED	
Lead-210		26.00	2.00

See footnotes at end of table

TABLE F-7A
(Continued)

Radionuclide ^a	Qualifier ^b	Activity Concentrations (pCi/g)	Uncertainty (pCi/g)
BOREHOLE 24-05 (Continued)			
Plutonium-238		NOT ANALYZED	
Plutonium-239/240		NOT ANALYZED	
Radium-226		17.00	1.00
Radium-228	<	1.00	NA
Ruthenium-106		NOT ANALYZED	
Strontium-90		NOT ANALYZED	
Technetium-99		NOT ANALYZED	
Thorium-228		0.80	0.30
Thorium-230		10.00	1.00
Thorium-232		0.50	0.20
Uranium-234		3.80	0.30
Uranium-235		0.20	0.05
Uranium-238		5.10	0.30
BOREHOLE 24-06			
Cesium-137		NOT ANALYZED	
Neptunium-237		NOT ANALYZED	
Lead-210		4.00	1.00
Plutonium-238		NOT ANALYZED	
Plutonium-239/240		NOT ANALYZED	
Radium-226		5.00	1.00
Radium-228		1.00	0.60
Ruthenium-106		NOT ANALYZED	
Strontium-90		NOT ANALYZED	
Technetium-99		NOT ANALYZED	
Thorium-228	<	0.10	NA
Thorium-230		0.50	0.10
Thorium-232	<	0.10	NA
Uranium-234		2.60	0.20
Uranium-235		0.10	0.04
Uranium-238		3.10	0.20
BOREHOLE 24-07			
Cesium-137		NOT ANALYZED	
Neptunium-237		NOT ANALYZED	
Lead-210		2.00	1.00
Plutonium-238		NOT ANALYZED	
Plutonium-239/240		NOT ANALYZED	

See footnotes at end of table

TABLE F-7A
(Continued)

Radionuclide ^a	Qualifier ^b	Activity Concentrations (pCi/g)	Uncertainty (pCi/g)
BOREHOLE 24-07 (Continued)			
Radium-226		0.70	0.50
Radium-228		3.00	1.00
Ruthenium-106		NOT ANALYZED	
Strontrium-90		NOT ANALYZED	
Technetium-99		NOT ANALYZED	
Thorium-228		0.70	0.20
Thorium-230		1.10	0.30
Thorium-232		0.60	0.20
Uranium-234		15.00	1.00
Uranium-235		0.60	0.10
Uranium-238		16.00	1.00
BOREHOLE 24-08			
Cesium-137		NOT ANALYZED	
Neptunium-237		NOT ANALYZED	
Lead-210		3.00	1.00
Plutonium-238		NOT ANALYZED	
Plutonium-239/240		NOT ANALYZED	
Radium-226		0.70	0.50
Radium-228		9.00	1.00
Ruthenium-106		NOT ANALYZED	
Strontrium-90		NOT ANALYZED	
Technetium-99		NOT ANALYZED	
Thorium-228		1.30	0.20
Thorium-230		0.70	0.20
Thorium-232		1.40	0.20
Uranium-234		14.00	1.00
Uranium-235		0.80	0.10
Uranium-238		17.00	1.00
BOREHOLE 24-09			
Cesium-137		NOT ANALYZED	
Neptunium-237		NOT ANALYZED	
Lead-210		2.00	1.00
Plutonium-238		NOT ANALYZED	
Plutonium-239/240		NOT ANALYZED	
Radium-226		0.90	0.40
Radium-228		10.00	1.00

See footnotes at end of table

TABLE F-7A
(Continued)

Radionuclide ^a	Qualifier ^b	Activity Concentrations (pCi/g)	Uncertainty (pCi/g)
BOREHOLE 24-09 (Continued)			
Ruthenium-106 NOT ANALYZED			
Strontium-90		NOT ANALYZED	
Technetium-99		NOT ANALYZED	
Thorium-228		1.90	0.20
Thorium-230		0.50	0.10
Thorium-232		2.10	0.20
Uranium-234		15.00	1.00
Uranium-235		0.80	0.10
Uranium-238		42.00	1.00
BOREHOLE 24-12			
Cesium-137		NOT ANALYZED	
Neptunium-237		NOT ANALYZED	
Lead-210		2.00	1.00
Plutonium-238		NOT ANALYZED	
Plutonium-239/240		NOT ANALYZED	
Radium-226		0.60	0.30
Radium-228		2.00	0.60
Ruthenium-106		NOT ANALYZED	
Strontium-90		NOT ANALYZED	
Technetium-99		NOT ANALYZED	
Thorium-228	<	0.20	NA
Thorium-230	<	0.10	NA
Thorium-232	<	0.10	NA
Uranium-234		6.70	0.40
Uranium-235		0.20	0.10
Uranium-238		9.00	0.40

^aRA-226 and RA-228, when reported, were measured by gamma spectrometry and reported on a dry weight basis.^bLaboratory qualifiers, no data validation was performed.^c< = Less than^dNot Applicable

TABLE F-7B
SOUTH FIELD
CIS SUBSURFACE SOIL RESULTS
NON-RADIOLOGICAL DATA
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Analyte	Sample No. PS-24-001 Boring 24-01		Sample No. PS-24-011 Boring 24-02		Sample No. PS-24-012 Boring 24-03	
	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
INORGANICS (mg/kg)						
Aluminum	8990	J	13100	J	9620	J
Antimony	1.0	UJ	0.3	J	0.3	J
Arsenic	6.0	J	4.1	J	3.7	J
Barium	88	J	119		55	
Beryllium	0.2	J	0.4	J	0.4	J
Cadmium	2.9	J	4.2	J	2.9	J
Calcium	32600	J	79400		43100	
Chromium	14		18	J	14	J
Cobalt	28		9.8	J	8.1	J
Copper	23	J	13	J	11	J
Cyanide	0.6	U	0.6	U	0.6	U
Iron	16100	J	21600		640	
Lead	11	J	16	J	15	J
Magnesium	15900	J	16800		18700	
Manganese	838	J	393	J	329	J
Mercury	1.2	J	0.1	J	0.4	J
Nickel	48		28	J	22	J
Potassium	632		1440		640	
Selenium	0.4	R	0.3	J	0.4	J

TABLE F-7B
(Continued)

Analyte	Sample No. PS-24-001 Boring 24-01		Sample No. PS-24-011 Boring 24-02		Sample No. PS-24-012 Boring 24-03	
	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
INORGANICS (mg/kg) (Continued)						
Silver	1.4	UJ	1.3	U	1.4	U
Sodium	310	U	59	U	64	U
Thallium	0.2	UJ	0.2	J	0.2	J
Vanadium	15		20		19	
Zinc	49	J	49	J	43	J
VOLATILES (µg/kg)						
1,1,1-Trichloroethane	-	-	200	U	-	-
1,1,2,2-Tetrachloroethane	-	-	200	U	-	-
1,1,2-Trichloroethane	-	-	200	U	-	-
1,1-Dichloroethane	-	-	200	U	-	-
1,1-Dichloroethene	-	-	200	U	-	-
1,2-Dichloroethane	-	-	200	U	-	-
1,2-Dichloropropane	-	-	200	U	-	-
1,3-Dichloropropene	-	-	200	U	-	-
1,3-Dichloropropylene	-	-	ND		-	-
2-Butanone	-	-	400	R	-	-
2-Chloroethyl vinyl ether	-	-	400	J	-	-
2-Hexanone	-	-	400	J	-	-
4-Methyl-2-Pentanone	-	-	400	U	-	-
Acetone	-	-	400	UJ	-	-
Acrolein	-	-	ND	R	-	-
Acrylonitrile	-	-	ND	R	-	-
Benzene	-	-	200	U	-	-

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TABLE F-7B
(Continued)

Analyte	Sample No. PS-24-001 Boring 24-01		Sample No. PS-24-011 Boring 24-02		Sample No. PS-24-012 Boring 24-03	
	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
VOLATILES (µg/kg) (Continued)						
Bis(chloromethyl)ether	-	-	ND	R	-	-
Bromodichloromethane	-	-	200	U	-	-
Bromoform	-	-	200	U	-	-
Bromomethane	-	-	400	J	-	-
Carbon disulfide	-	-	200	U	-	-
Carbon tetrachloride	-	-	200	U	-	-
Chlorobenzene	-	-	200	U	-	-
Chloroethane	-	-	400	J	-	-
Chloroform	-	-	200	U	-	-
Chloromethane	-	-	400	J	-	-
Cis-1,2-dichloroethylene	-	-	ND	-	-	-
Dibromochloromethane	-	-	200	U	-	-
Dichlorodifluoromethane	-	-	ND	R	-	-
Ethylbenzene	-	-	200	U	-	-
Methylene chloride	-	-	200	U	-	-
Styrene	-	-	200	U	-	-
Tetrachloroethene	-	-	200	U	-	-
Toluene	-	-	200	U	-	-
Total xylene	-	-	200	U	-	-
Trans-1,2-dichloroethene	-	-	200	U	-	-
Trichloroethene	-	-	200	U	-	-
Vinyl acetate	-	-	400	U	-	-
Vinyl chloride	-	-	400	U	-	-

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325-000

TABLE F-7B
(Continued)

Analyte	Sample No. PS-24-001 Boring 24-01		Sample No. PS-24-011 Boring 24-02		Sample No. PS-24-012 Boring 24-03	
	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
SEMIVOLATILES (μ/kg)						
1,2,4-Trichlorobenzene	450	U	-	-	-	-
1,2-Dichlorobenzene	450	U	-	-	-	-
1,3-Dichlorobenzene	450	U	-	-	-	-
1,4-Dichlorobenzene	450	U	-	-	-	-
2,4,5-Trichlorophenol	2300	R	-	-	-	-
2,4,6-Trichlorophenol	450	U	-	-	-	-
2,4-Dichlorophenol	450	U	-	-	-	-
2,4-Dimethylphenol	450	U	-	-	-	-
2,4-Dinitrophenol	2300	U	-	-	-	-
2,4-Dinitrotoluene	450	U	-	-	-	-
2,6-Dinitrotoluene	450	U	-	-	-	-
2-Chloronaphthalene	450	U	-	-	-	-
2-Chlorophenol	450	U	-	-	-	-
2-Methylnaphthalene	450	U	-	-	-	-
2-Methylphenol	450	U	-	-	-	-
2-Nitroaniline	2300	U	-	-	-	-
2-Nitrophenol	450	U	-	-	-	-
3,3-Dichlorobenzidine	900	U	-	-	-	-
3-Nitroaniline	2300	U	-	-	-	-
4,6-Dinitro-2-methylphenol	2300	U	-	-	-	-
4-Bromophenyl phenyl ether	450	U	-	-	-	-
4-Chloroaniline	450	U	-	-	-	-
4-Chloro-3-methylphenol	450	U	-	-	-	-
4-Methylphenol	450	U	-	-	-	-
4-Nitroaniline	2300	U	-	-	-	-

TABLE F-7B
(Continued)

Analyte	Sample No. PS-24-001 Boring 24-01		Sample No. PS-24-011 Boring 24-02		Sample No. PS-24-012 Boring 24-03	
	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
SEMIVOLATILES (μkg) (Continued)						
4-Nitrophenol	2300	U	-	-	-	-
Acenaphthene	450	U	-	-	-	-
Acenaphthylene	450	U	-	-	-	-
Anthracene	450	U	-	-	-	-
Benzoic acid	2300	R	-	-	-	-
Benzo(a)anthracene	450	U	-	-	-	-
Benzo(a)pyrene	450	U	-	-	-	-
Benzo(b)fluoranthene	450	U	-	-	-	-
Benzo(g,h,i)perylene	450	U	-	-	-	-
Benzo(k)fluoranthene	450	U	-	-	-	-
Benzyl alcohol	450	U	-	-	-	-
Bis(2-chloroethoxy)methane	450	U	-	-	-	-
Bis(2-chloroethyl)ether	450	U	-	-	-	-
Bis(2-chloroisopropyl)ether	450	J	-	-	-	-
Bis(2-ethylhexyl)phthalate	450	U	-	-	-	-
Butyl benzyl phthalate	450	U	-	-	-	-
Chrysene	450	U	-	-	-	-
Dibenzofuran	450	U	-	-	-	-
Dibenzo(a,h)anthracene	450	U	-	-	-	-
Diethyl phthalate	450	U	-	-	-	-
Dimethyl phthalate	450	U	-	-	-	-
Di-n-butylphthalate	450	U	-	-	-	-
Di-n-octylphthalate	450	U	-	-	-	-
Fluoranthene	450	U	-	-	-	-

TABLE F-7B
(Continued)

Analyte	Sample No. PS-24-001 Boring 24-01		Sample No. PS-24-011 Boring 24-02		Sample No. PS-24-012 Boring 24-03	
	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
SEMIVOLATILES (μ/kg) (Continued)						
Fluorene	450	U	-	-	-	-
Hexachlorobenzene	450	J	-	-	-	-
Hexachlorobutadiene	450	U	-	-	-	-
Hexachlorocyclopentadiene	450	J	-	-	-	-
Hexachloroethane	450	U	-	-	-	-
Indeno(1,2,3-cd)pyrene	450	UJ	-	-	-	-
Isophorone	450	J	-	-	-	-
Naphthalene	450	U	-	-	-	-
Nitrobenzene	450	J	-	-	-	-
N-nitrosodiphenylamine	450	J	-	-	-	-
N-nitroso-di-n-propylamine	450	U	-	-	-	-
Pentachlorophenol	2300	U	-	-	-	-
Phenanthrene	450	U	-	-	-	-
Phenol	450	U	-	-	-	-
Pyrene	450	U	-	-	-	-
PCBs/PESTICIDES (μg/kg)						
4,4-dde	-	-	94	U	19	U
Aldrin	-	-	47	U	9.4	U
Alpha-bhc	-	-	47	U	9.4	U
Aroclor 1016	-	-	470	U	94	U
Aroclor 1221	-	-	470	U	94	U
Aroclor 1232	-	-	470	U	94	U
Aroclor 1242	-	-	470	U	94	U
Aroclor 1248	-	-	470	U	94	U

TABLE F-7B
(Continued)

Analyte	Sample No. PS-24-001 Boring 24-01		Sample No. PS-24-011 Boring 24-02		Sample No. PS-24-012 Boring 24-03	
	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
PCBs/PESTICIDES ($\mu\text{g}/\text{kg}$) (Continued)						
Aroclor 1254	-	-	510	J	39	J
Aroclor 1260	-	-	940	U	190	U
Beta-bhc	-	-	47	U	9.4	U
Chlordane	-	-	470	U	94	U
Delta-bhc	-	-	47	U	9.4	U
Dieldrin	-	-	94	U	19	U
Endosulfan I	-	-	47	U	9.4	U
Endosulfan II	-	-	94	U	19	U
Endosulfan sulfate	-	-	94	U	19	U
Endrin	-	-	94	U	19	U
Endrin ketone	-	-	94	U	19	U
Heptachlor	-	-	47	U	9.4	U
Heptachlor epoxide	-	-	47	U	9.4	U
Methoxychlor	-	-	470	U	94	U
Toxaphene	-	-	940	U	190	U

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TABLE F-7B
(Continued)

Analyte	Sample No. PS-24-014		Sample No. PS-24-017		Sample No. PS-24-043	
	Boring 24-04	Validation Qualifier	Boring 24-06	Validation Qualifier	Boring 24-05	Validation Qualifier
INORGANICS (mg/kg)						
Aluminum	6670	J	8590	J	10400	J
Antimony	0.3	J	0.3	J	0.3	J
Arsenic	4.4	J	4.7	J	4.9	J
Barium	51		91		48	
Beryllium	0.2	J	0.4	J	0.2	J
Cadmium	2.1	J	3.3		3.1	J
Calcium	61600		32700		4080	
Chromium	9.4	J	12		15	J
Cobalt	6.8	J	15		9.8	J
Copper	9.6	J	19		11	J
Cyanide	0.6	U	0.6		0.6	U
Iron	511		469		348	
Lead	16	J	10		11	J
Magnesium	30300		19100		2830	
Manganese	462	J	1170		319	J
Mercury	0.4	J	0.1		0.1	UJ
Nickel	13	J	36		20	J
Potassium	511		469		348	
Selenium	0.4	J	0.3		0.3	J

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000731

TABLE F-7B
(Continued)

Analyte	Sample No. PS-24-014 Boring 24-04		Sample No. PS-24-017 Boring 24-06		Sample No. PS-24-043 Boring 24-05	
	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
INORGANICS (mg/kg) (Continued)						
Silver	1.4	U	1.4	U	1.4	U
Sodium	66	U	63	U	64	U
Thallium	0.2	J	0.2	J	0.2	J
Vanadium	16		19		17	
Zinc	34	J	44	J	40	J
PCBs/PESTICIDES (µg/kg)						
4,4-dde	35	U	19	U	38	
4,4-ddt						
Aldrin	17	U	9.7	U	19	
Alpha-bhc	17	U	9.7	U	19	
Aroclor 1016	170	U	97	U	190	
Aroclor 1221	170	U	97	U	190	
Aroclor 1232	170	U	97	U	190	
Aroclor 1242	170	U	97	U	190	
Aroclor 1248	170	U	360		190	
Aroclor 1254	670		190	U	130	
Aroclor 1260	350	U	190	U	380	
Beta-bhc	17	U	9.7	U	19	
Chlordane	170	U	97	U	190	
Delta-bhc	17	U	9.7	U	19	
Dieldrin	35	U	19	U	38	
Endosulfan I	17	U	9.7	U	19	
Endosulfan II	35	U	19	U	38	
Endosulfan sulfate	35	U	19	U	38	

TABLE F-7B
(Continued)

Analyte	Sample No. PS-24-014 Boring 24-04		Sample No. PS-24-017 Boring 24-06		Sample No. PS-24-043 Boring 24-05	
	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
PCBs/PESTICIDES ($\mu\text{g}/\text{kg}$) (Continued)						
Endrin	35	U	19	U	38	
Endrin ketone	35	U	19	U	38	
Heptachlor	17	U	9.7	U	19	
Heptachlor epoxide	17	U	9.7	U	19	
Methoxychlor	170	U	97	U	190	
Toxaphene	350	U	190	U	380	

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F-7-15

TABLE F-7B
(Continued)

Analyte	Sample No. PS-24-066 Boring 24-08		Sample No. PS-24-095 Boring 24-09		Sample No. PS-24-167 Boring 24-12	
	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
INORGANICS (mg/kg)						
Aluminum	-	-	7410	J	8160	
Antimony	-	-	0.3	UJ	0.3	UJ
Arsenic	-	-	5.6	UJ	5.9	J
Barium	-	-	39	J	78	
Beryllium	-	-	0.41	J	0.7	B
Cadmium	-	-	3.7		3.4	
Calcium	-	-	187000	J	74400	J
Chromium	-	-	14	J	18	
Cobalt	-	-	7.8	J	9.9	J
Copper	-	-	10		12	
Cyanide	-	-	0.6	UJ	0.6	U
Iron	-	-	14100		18800	J
Lead	-	-	16		17	J
Magnesium	-	-	14700	J	19300	
Manganese	-	-	442	J	832	J
Mercury	-	-	0.2		0.1	J
Nickel	-	-	10		14	
Potassium	-	-	818		1020	
Selenium	-	-	0.3	U	0.4	J

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TABLE F-7B
(Continued)

Analyte	Sample No. PS-24-066 Boring 24-08		Sample No. PS-24-095 Boring 24-09		Sample No. PS-24-167 Boring 24-12	
	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
INORGANICS (mg/kg) (Continued)						
Silver	-	-	1.4	U	1.5	UJ
Sodium	-	-	102	J	65	U
Thallium	-	-	0.2	U	0.2	J
Vanadium	-	-	19	-	26	-
Zinc	-	-	43	J	49	-
VOLATILES (µg/kg)						
1,1,1-Trichloroethane	170	U	-	-	-	-
1,1,2,2-Tetrachloroethane	170	U	-	-	-	-
1,1,2-Trichloroethane	170	U	-	-	-	-
1,1-Dichloroethane	170	U	-	-	-	-
1,1-Dichloroethene	170	U	-	-	-	-
1,2-Dichloroethane	170	U	-	-	-	-
1,2-Dichloropropane	170	U	-	-	-	-
1,3-Dichloropropene	170	U	-	-	-	-
1,3-Dichloropropylene	ND	-	-	-	-	-
2-Butanone	340	R	-	-	-	-
2-Chloroethyl vinyl ether	340	UJ	-	-	-	-
2-Hexanone	340	J	-	-	-	-
4-Methyl-2-pentanone	340	U	-	-	-	-
Acetone	170	UJ	-	-	-	-
Acrolein	ND	R	-	-	-	-
Acrylonitrile	ND	R	-	-	-	-
Benzene	170	U	-	-	-	-

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TABLE F-7B
(Continued)

Analyte	Sample No. PS-24-066 Boring 24-08		Sample No. PS-24-095 Boring 24-09		Sample No. PS-24-167 Boring 24-12	
	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
VOLATILES (µg/kg) (Continued)						
Bis(chloromethyl)ether	ND	R	-	-	-	-
Bromodichloromethane	170	U	-	-	-	-
Bromoform	170	U	-	-	-	-
Bromomethane	340	J	-	-	-	-
Carbon disulfide	170	U	-	-	-	-
Carbon tetrachloride	170	U	-	-	-	-
Chlorobenzene	170	U	-	-	-	-
Chloroethane	340	J	-	-	-	-
Chloroform	170	U	-	-	-	-
Chloromethane	340	J	-	-	-	-
Cis-1,2-dichloroethylene	ND	-	-	-	-	-
Dibromochloromethane	170	U	-	-	-	-
Dichlorodifluoromethane	ND	R	-	-	-	-
Ethylbenzene	170	U	-	-	-	-
Methylene chloride	170	U	-	-	-	-
Styrene	170	U	-	-	-	-
Tetrachloroethene	170	U	-	-	-	-
Toluene	170	U	-	-	-	-
Total xylene	170	U	-	-	-	-
Trans-1,2-dichloroethene	170	U	-	-	-	-
Trichloroethene	170	U	-	-	-	-
Vinyl acetate	340	U	-	-	-	-
Vinyl chloride	340	U	-	-	-	-

TABLE F-7B
(Continued)

Analyte	Sample No. PS-24-066 Boring 24-08		Sample No. PS-24-095 Boring 24-09		Sample No. PS-24-167 Boring 24-12	
	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
PCBs/PESTICIDES ($\mu\text{g}/\text{kg}$)						
4,4-DDE	-	-	18	U	20	U
Aldrin	-	-	9.2	U	10	U
Alpha-bhc	-	-	9.2	U	10	U
Aroclor 1016	-	-	92	U	100	U
Aroclor 1221	-	-	92	U	100	U
Aroclor 1232	-	-	92	U	100	U
Aroclor 1242	-	-	42	J	100	U
Aroclor 1248	-	-	92	U	100	U
Aroclor 1254	-	-	180	U	200	U
Aroclor 1260	-	-	250	-	28	J
Beta-bhc	-	-	9.2	U	10	U
Chlordane	-	-	92	U	100	U
Delta-bhc	-	-	9.2	U	10	U
Dieldrin	-	-	18	U	20	U
Endosulfan I	-	-	9.2	U	10	U
Endosulfan II	-	-	18	U	20	U
Endosulfan sulfate	-	-	18	U	20	U
Endrin	-	-	18	UJ	20	U
Endrin ketone	-	-	18	U	20	U
Heptachlor	-	-	9.2	U	10	U
Heptachlor epoxide	-	-	9.2	U	10	U
Methoxychlor	-	-	92	U	100	U
Toxaphene	-	-	180	U	200	U

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TABLE F-7B
(Continued)

Analyte	Sample No. PS-24-068 Boring 24-07	
	Result	Validation Qualifier
PCBs/PESTICIDES ($\mu\text{g}/\text{kg}$)		
4-DDD	20	U
4,4-DDE	20	U
4-DDT	20	U
Aldrin	10	U
Alpha-bhc	10	U
Aroclor 1016	98	U
Aroclor 1221	98	U
Aroclor 1232	98	U
Aroclor 1242	76	U
Aroclor 1248	98	U
Aroclor 1254	200	U
Aroclor 1260	420	B
Beta-bhc	10	U
Chlordane	98	U
Delta-bhc	10	U
Dieldrin	20	U
Endosulfan I	10	U
Endosulfan II	20	U
Endosulfan sulfate	20	U
Endrin	20	U
Endrin ketone	20	U
Heptachlor	10	U
Heptachlor epoxide	10	U
Lindane	10	U
Methoxychlor	98	U
Toxaphene	200	U

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TABLE F-8

(Continued)

TABLE F-8

SOUTH FIELD
SUBSURFACE MEDIA ENVIRONMENTAL SURVEY
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Analyte	Test Pit 14		Test Pit 15			Test Pit 16		Test Pit 17	
	1011IS1B	1011IS2B	1012IS1B	1012IS2B	1012IS3B	1013IS1B	1013IS2B	1014IS1B	1014IS2B
RADIONUCLIDES (pCi/g)									
Bismuth-214	3.2±0.1	1.0±0.1	1.1±0.1	1.2±0.1	NA	1.1±0.1	1.4±0.1	1.7±0.1	1.5±0.1
Cesium-137	I	I	I	I	NA	I	I	I	I
Radium-226	3.6±0.2G	0.94±0.1G	1.1±0.1G	1.3±0.1G	NA	1.1±0.1G	1.4±0.1G	1.7±0.1G	1.4±0.1G
Thorium-228	1.1±0.1G	1.0±0.2G	1.6±0.1G	2.4±0.1G	NA	1.2±0.1G	1.4±0.1G	1.1±0.1G	0.91±0.05G
Thorium-232	1.2±0.3G	1.4±0.2G	1.5±0.1G	2.5±0.2G	NA	0.84±0.05G	1.3±0.1G	1.3±0.1G	0.9±0.06G
Total Uranium (mg/kg)	71.0	2.1	15.0	56.0	NA	85.0	2.9	14.0	12.0
Uranium-235	0.83±0.02	0.14±0.02	0.16±0.01	0.30	NA	0.63±0.01	0.07±0.01	0.19±0.01	0.15±0.01
Uranium-238	46±5	N	N	20±4	NA	49±3	N	12±3	9±2
TCLP METALS (mg/L)									
Arsenic	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	<0.5	<0.5
Barium	0.53B	0.60B	0.25B	0.65B	NA	0.70B	0.43B	0.54B	0.49B
Cadmium	<0.02	<0.02	<0.02	<0.02	NA	<0.02	<0.02	<0.02	<0.02
Chromium	<0.03	<0.03	<0.03	<0.03	NA	0.05	<0.03	<0.03	<0.03
Mercury	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001
Lead	<0.3	<0.3	<0.3	<0.3	NA	<0.3	<0.3	<0.3	<0.3
Selenium	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	<0.5	<0.5
Silver	<0.1	<0.1	<0.1	<0.1	NA	<0.1	<0.1	<0.1	<0.1
VOLATILE ORGANIC COMPOUNDS (µg/kg)									
1,1,1-Trichloroethane	NA	NA	NA	NA	<5	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	<5	NA	NA	NA	NA

See notes at end of table

TABLE F-8
(Continued)

Analyte	Test Pit 14		Test Pit 15			Test Pit 16		Test Pit 17	
	1011IS1B	1011IS2B	1012IS1B	1012IS2B	1012IS3B	1013IS1B	1013IS2B	1014IS1B	1014IS2B
VOLATILE ORGANIC COMPOUNDS ($\mu\text{g/kg}$) (continued)									
1,1,2-Trichloroethane	NA	NA	NA	NA	<5	NA	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA	NA	<5	NA	NA	NA	NA
1,1-Dichloroethene	NA	NA	NA	NA	<5	NA	NA	NA	NA
1,2-Dichloroethene	NA	NA	NA	NA	<5	NA	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA	NA	<5	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	4 BJ	NA	NA	NA	NA
2-Chloroethylvinyl Ether	NA	NA	NA	NA	<10	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	<10	NA	NA	NA	NA
4-Methyl-2-pentanone	NA	NA	NA	NA	<10	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	22	NA	NA	NA	NA
Benzene	NA	NA	NA	NA	<5	NA	NA	NA	NA
Bromodichloromethane	NA	NA	NA	NA	<5	NA	NA	NA	NA
Bromoform	NA	NA	NA	NA	<5	NA	NA	NA	NA
Bromomethane	NA	NA	NA	NA	<10	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	<5	NA	NA	NA	NA
Carbon tetrachloride	NA	NA	NA	NA	<5	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA	<5	NA	NA	NA	NA
Chloroform	NA	NA	NA	NA	6 B	NA	NA	NA	NA
Chloromethane	NA	NA	NA	NA	<10	NA	NA	NA	NA
Cis-1,3-dichloropropene	NA	NA	NA	NA	<5	NA	NA	NA	NA
Dibromochemicalmethane	NA	NA	NA	NA	<5	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	<5	NA	NA	NA	NA
Methylene Chloride	NA	NA	NA	NA	12 B	NA	NA	NA	NA

See notes at end of table

TABLE F-8
(Continued)

Analyte	Test Pit 14		Test Pit 15			Test Pit 16		Test Pit 17	
	1011IS1B	1011IS2B	1012IS1B	1012IS2B	1012IS3B	1013IS1B	1013IS2B	1014IS1B	1014IS2B
VOLATILE ORGANIC COMPOUNDS (µg/kg) (continued)									
Styrene	NA	NA	NA	NA	<5	NA	NA	NA	NA
Tetrachloroethene	NA	NA	NA	NA	<5	NA	NA	NA	NA
Toluene	NA	NA	NA	NA	2 BJ	NA	NA	NA	NA
Total xylenes	NA	NA	NA	NA	<5	NA	NA	NA	NA
Trans-1,2-dichloroethylene	NA	NA	NA	NA	<5	NA	NA	NA	NA
Trans-1,3-dichloropropene	NA	NA	NA	NA	<5	NA	NA	NA	NA
Trichloroethene	NA	NA	NA	NA	<5	NA	NA	NA	NA
Vinyl acetate	NA	NA	NA	NA	<10	NA	NA	NA	NA
Vinyl chloride	NA	NA	NA	NA	<10	NA	NA	NA	NA

NA = Not Analyzed

J = Estimated value of compound present but less than the specified detection limit

B = Analyte was found in the blank as well as the sample

I = Nuclide identified by GAMANAL analysis of sample spectrum, but values did not exceed room background at the 95% confidence level; no value reported

G = Gamma Spectroscopy Analysis

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TABLE F-9

TABLE F-9
SOUTH FIELD
RI/FS SEDIMENT RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	SF-SD-01 110425			SF-SD-02 110430			SF-SD-03 110428		
SAMPLING DATE	03/24/93			03/25/93			03/25/93		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.258	pCi/g	-	0.400	pCi/g	-	0.130	pCi/g	UJ
GROSS ALPHA	29.100	pCi/g	-	33.500	pCi/g	-	61.400	pCi/g	-
GROSS BETA	58.200	pCi/g	J	32.600	pCi/g	-	36.200	pCi/g	-
NP-237	0.323	pCi/g	N	0.280	pCi/g	N	0.420	pCi/g	N
PU-238	0.057	pCi/g	J	0.100	pCi/g	J	1.900	pCi/g	-
PU-239/240	0.067	pCi/g	J	0.020	pCi/g	UJ	0.370	pCi/g	J
RA-226	1.680	pCi/g	-	1.570	pCi/g	-	2.960	pCi/g	-
RA-228	1.240	pCi/g	-	0.930	pCi/g	-	2.530	pCi/g	-
RU-106	0.652	pCi/g	UJ	0.600	pCi/g	UJ	0.940	pCi/g	UJ
SR-90	0.546	pCi/g	J	0.430	pCi/g	UJ	1.010	pCi/g	J
TC-99	0.356	pCi/g	UJ	0.320	pCi/g	UJ	0.220	pCi/g	UJ
TH-228	1.030	pCi/g	-	1.060	pCi/g	-	2.800	pCi/g	-
TH-230	1.830	pCi/g	-	8.960	pCi/g	-	4.910	pCi/g	-
TH-232	1.040	pCi/g	-	0.870	pCi/g	-	2.570	pCi/g	-
TH-TOTAL	9.450	ug/g	-	7.930	ug/g	-	23.400	ug/g	-
U-234	3.620	pCi/g	-	5.130	pCi/g	-	7.950	pCi/g	-
U-235/236	0.255	pCi/g	J	0.290	pCi/g	J	0.410	pCi/g	J
U-238	5.210	pCi/g	-	6.210	pCi/g	-	8.750	pCi/g	-
U-TOTAL	15.200	mg/kg	-	20.000	mg/kg	J	30.100	mg/kg	J

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FEMP-OIU02-6 FINAL
January 21, 1995

TABLE F-9
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	SF-SD-01 110425	SF-SD-03 110428	SF-SD-02 110430			
SAMPLING DATE	03/24/93	03/25/93	03/25/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ
<u>Inorganics</u>						
Aluminum	5750.000	mg/kg C J	8720.000	mg/kg C J	12000.000	mg/kg C J
Antimony	1.200	mg/kg C UJ	1.600	mg/kg C UJ	1.300	mg/kg C UJ
Arsenic	7.700	mg/kg C -	75.600	mg/kg C -	8.000	mg/kg C -
Barium	52.900	mg/kg C -	212.000	mg/kg C -	109.000	mg/kg C -
Beryllium	0.460	mg/kg C U	4.600	mg/kg C U	1.100	mg/kg C -
Cadmium	1.200	mg/kg C U	1.600	mg/kg C U	1.300	mg/kg C U
Calcium	22400.000	mg/kg C J	19300.000	mg/kg C J	83500.000	mg/kg C J
Chromium	6.800	mg/kg C -	19.200	mg/kg C -	15.700	mg/kg C -
Cobalt	3.700	mg/kg C -	19.400	mg/kg C -	11.000	mg/kg C -
Copper	8.000	mg/kg C -	122.000	mg/kg C -	25.400	mg/kg C -
Cyanide	0.180	mg/kg C -	0.540	mg/kg C -	0.160	mg/kg C U
Iron	10400.000	mg/kg C J	10100.000	mg/kg C J	22300.000	mg/kg C J
Lead	27.000	mg/kg C -	91.500	mg/kg C -	50.800	mg/kg C -
Magnesium	6460.000	mg/kg C -	4510.000	mg/kg C -	20200.000	mg/kg C -
Manganese	476.000	mg/kg C J	236.000	mg/kg C J	896.000	mg/kg C J
Mercury	0.140	mg/kg C U	0.190	mg/kg C U	0.160	mg/kg C U
Molybdenum	4.600	mg/kg C UJ	6.300	mg/kg C UJ	6.300	mg/kg C J
Nickel	7.100	mg/kg C -	36.400	mg/kg C -	26.400	mg/kg C -
Potassium	597.000	mg/kg C -	1920.000	mg/kg C -	1460.000	mg/kg C -
Selenium	0.860	mg/kg C -	5.900	mg/kg C -	0.550	mg/kg C U
Silicon	640.000	mg/kg C J	1250.000	mg/kg C J	1670.000	mg/kg C J
Silver	2.900	mg/kg C -	3.200	mg/kg C U	6.500	mg/kg C -
Sodium	67.100	mg/kg C -	237.000	mg/kg C -	155.000	mg/kg C -
Thallium	0.610	mg/kg C U	4.400	mg/kg C U	0.550	mg/kg C U
Vanadium	15.300	mg/kg C -	53.600	mg/kg C -	32.000	mg/kg C -
Zinc	24.900	mg/kg C J	118.000	mg/kg C J	68.700	mg/kg C J
<u>Volatile Organics</u>						
1,1,1-Trichloroethane	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
1,1,2,2-Tetrachloroethane	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
1,1,2-Trichloroethane	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
1,1-Dichloroethane	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
1,1-Dichloroethene	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
1,2-Dichloroethane	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
1,2-Dichloroethene	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
1,2-Dichloropropane	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
2-Butanone	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
2-Hexanone	15.000	ug/kg C UJ	18.000	ug/kg C UJ	16.000	ug/kg C UJ
4-Methyl-2-pentanone	15.000	ug/kg C UJ	18.000	ug/kg C UJ	16.000	ug/kg C UJ
Acetone	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
Benzene	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U

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TABLE F-9
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	SF-SD-01 110425	SF-SD-03 110428	SF-SD-02 110430			
SAMPLING DATE	03/24/93	03/25/93	03/25/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ
<u>Volatile Organics</u>						
Bromodichloromethane	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
Bromoform	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
Bromomethane	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
Carbon Tetrachloride	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
Carbon disulfide	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
Chlorobenzene	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
Chloroethane	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
Chloroform	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
Chloromethane	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
Dibromochloromethane	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
Ethylbenzene	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
Methylene chloride	15.000	ug/kg C U	18.000	ug/kg C UJ	18.000	ug/kg C U
Styrene	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
Tetrachloroethene	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
Toluene	15.000	ug/kg C U	8.000	ug/kg C J	16.000	ug/kg C U
Trichloroethene	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
Vinyl Acetate	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
Vinyl chloride	15.000	ug/kg C UJ	18.000	ug/kg C UJ	16.000	ug/kg C UJ
Xylenes, Total	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
cis-1,3-Dichloropropene	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
trans-1,3-Dichloropropene	15.000	ug/kg C U	18.000	ug/kg C UJ	16.000	ug/kg C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
1,2-Dichlorobenzene	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
1,2-Diphenylhydrazine	510.000	ug/kg C UJ	610.000	ug/kg C U	540.000	ug/kg C U
1,3-Dichlorobenzene	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
1,4-Dichlorobenzene	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
2,4,5-Trichlorophenol	2500.000	ug/kg C U	1500.000	ug/kg C U	1300.000	ug/kg C U
2,4,6-Trichlorophenol	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
2,4-Dichlorophenol	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
2,4-Dimethylphenol	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
2,4-Dinitrophenol	2500.000	ug/kg C UJ	2900.000	ug/kg C R	2600.000	ug/kg C R
2,4-Dinitrotoluene	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
2,6-Dinitrotoluene	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
2-Chloronaphthalene	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
2-Chlorophenol	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
2-Methylnaphthalene	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
2-Methylphenol	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
2-Nitroaniline	2500.000	ug/kg C UJ	1500.000	ug/kg C U	1300.000	ug/kg C U
2-Nitrophenol	510.000	ug/kg C UJ	610.000	ug/kg C U	540.000	ug/kg C U

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000744

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TABLE F-9
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SF-SD-01	SF-SD-03	SF-SD-02			
SAMPLE NUMBER	110425	110428	110430			
SAMPLING DATE	03/24/93	03/25/93	03/25/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
3,3'-Dichlorobenzidine	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
3-Nitroaniline	2500.000	ug/kg C U	1500.000	ug/kg C U	1300.000	ug/kg C U
4,6-Dinitro-2-methylphenol	2500.000	ug/kg C R	1500.000	ug/kg C R	1300.000	ug/kg C R
4-Bromophenyl phenyl ether	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
4-Chloro-3-methylphenol	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
4-Chlorophenylphenyl ether	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
4-Methylphenol	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
4-Nitroaniline	2500.000	ug/kg C U	1500.000	ug/kg C U	1300.000	ug/kg C U
4-Nitrophenol	2500.000	ug/kg C U	1500.000	ug/kg C U	1300.000	ug/kg C U
Acenaphthene	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
Acenaphthylene	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
Anthracene	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
Benzo(a)anthracene	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
Benzo(a)pyrene	64.000	ug/kg C R	610.000	ug/kg C U	66.000	ug/kg C J
Benzo(b)fluoranthene	59.000	ug/kg C R	610.000	ug/kg C U	110.000	ug/kg C J
Benzo(g,h,i)perylene	60.000	ug/kg C R	610.000	ug/kg C U	110.000	ug/kg C J
Benzo(k)fluoranthene	71.000	ug/kg C R	74.000	ug/kg C J	120.000	ug/kg C J
Benzoic acid	2500.000	ug/kg C UJ	99.000	ug/kg C J	160.000	ug/kg C J
Benzyl alcohol	510.000	ug/kg C UJ	610.000	ug/kg C U	540.000	ug/kg C U
Butyl benzyl phthalate	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
Carbazole	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
Chrysene	87.000	ug/kg C J	67.000	ug/kg C J	110.000	ug/kg C J
Di-n-butyl phthalate	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
Di-n-octyl phthalate	510.000	ug/kg C R	610.000	ug/kg C U	540.000	ug/kg C U
Dibenzo(a,h)anthracene	510.000	ug/kg C R	610.000	ug/kg C U	540.000	ug/kg C U
Dibenzofuran	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
Diethyl phthalate	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
Dimethyl phthalate	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
Fluoranthene	130.000	ug/kg C J	74.000	ug/kg C J	120.000	ug/kg C J
Fluorene	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
Hexachlorobenzene	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
Hexachlorobutadiene	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
Hexachlorocyclopentadiene	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
Hexachloroethane	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
Indeno(1,2,3-cd)pyrene	510.000	ug/kg C R	610.000	ug/kg C U	99.000	ug/kg C J
Isophorone	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
N-Nitroso-di-n-propylamine	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
N-Nitrosodimethylamine	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
N-Nitrosodiphenylamine	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
Naphthalene	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
Nitrobenzene	510.000	ug/kg C U	610.000	ug/kg C U	540.000	ug/kg C U
Pentachlorophenol	2500.000	ug/kg C U	1500.000	ug/kg C U	1300.000	ug/kg C U

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TABLE F-9
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SF-SD-01	SF-SD-03			SF-SD-02							
SAMPLE NUMBER	110425	110428			110430							
SAMPLING DATE	03/24/93	03/25/93			03/25/93							
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS							
<u>Semivolatile Organics</u>												
Phenanthrene	63.000	ug/kg	C	J	610.000	ug/kg	C	U	540.000	ug/kg	C	U
Phenol	510.000	ug/kg	C	U	610.000	ug/kg	C	U	56.000	ug/kg	C	U
Pyrene	110.000	ug/kg	C	J	71.000	ug/kg	C	J	110.000	ug/kg	C	J
Tributyl phosphate	510.000	ug/kg	C	U	610.000	ug/kg	C	U	540.000	ug/kg	C	U
bis(2-Chloroethoxy)methane	510.000	ug/kg	C	U	610.000	ug/kg	C	U	540.000	ug/kg	C	U
bis(2-Chloroethyl)ether	510.000	ug/kg	C	U	610.000	ug/kg	C	U	540.000	ug/kg	C	U
bis(2-Chloroisopropyl) ether	510.000	ug/kg	C	U	610.000	ug/kg	C	U	540.000	ug/kg	C	U
bis(2-Ethylhexyl) phthalate	74.000	ug/kg	C	J	130.000	ug/kg	C	J	120.000	ug/kg	C	J
p-Chloroaniline	510.000	ug/kg	C	U	610.000	ug/kg	C	U	540.000	ug/kg	C	U
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	5.200	ug/kg	C	U	6.100	ug/kg	C	U	5.400	ug/kg	C	U
4,4'-DDE	5.200	ug/kg	C	U	6.100	ug/kg	C	U	5.400	ug/kg	C	U
4,4'-DDT	5.200	ug/kg	C	U	6.100	ug/kg	C	U	5.400	ug/kg	C	U
Aldrin	2.700	ug/kg	C	U	3.100	ug/kg	C	U	2.800	ug/kg	C	U
Aroclor-1016	52.000	ug/kg	C	U	61.000	ug/kg	C	U	54.000	ug/kg	C	U
Aroclor-1221	100.000	ug/kg	C	U	120.000	ug/kg	C	U	110.000	ug/kg	C	U
Aroclor-1232	52.000	ug/kg	C	U	61.000	ug/kg	C	U	54.000	ug/kg	C	U
Aroclor-1242	52.000	ug/kg	C	U	61.000	ug/kg	C	U	54.000	ug/kg	C	U
Aroclor-1248	52.000	ug/kg	C	U	61.000	ug/kg	C	U	54.000	ug/kg	C	U
Aroclor-1254	52.000	ug/kg	C	U	61.000	ug/kg	C	U	96.000	ug/kg	C	U
Aroclor-1260	52.000	ug/kg	C	U	61.000	ug/kg	C	U	54.000	ug/kg	C	U
Dieldrin	5.200	ug/kg	C	U	6.100	ug/kg	C	U	5.400	ug/kg	C	U
Endosulfan II	5.200	ug/kg	C	U	6.100	ug/kg	C	U	5.400	ug/kg	C	U
Endosulfan sulfate	5.200	ug/kg	C	U	6.100	ug/kg	C	U	5.400	ug/kg	C	U
Endosulfan-I	2.700	ug/kg	C	U	3.100	ug/kg	C	U	2.800	ug/kg	C	U
Endrin	5.200	ug/kg	C	U	6.100	ug/kg	C	U	5.400	ug/kg	C	U
Endrin aldehyde	5.200	ug/kg	C	U	6.100	ug/kg	C	U	5.400	ug/kg	C	U
Endrin ketone	5.200	ug/kg	C	U	6.100	ug/kg	C	U	5.400	ug/kg	C	U
Heptachlor	2.700	ug/kg	C	U	3.100	ug/kg	C	U	2.800	ug/kg	C	U
Heptachlor epoxide	2.700	ug/kg	C	U	3.100	ug/kg	C	U	2.800	ug/kg	C	U
Methoxychlor	27.000	ug/kg	C	U	31.000	ug/kg	C	U	28.000	ug/kg	C	U
Toxaphene	270.000	ug/kg	C	U	310.000	ug/kg	C	U	280.000	ug/kg	C	U
alpha-BHC	2.700	ug/kg	C	U	3.100	ug/kg	C	U	2.800	ug/kg	C	U
alpha-Chlordane	2.700	ug/kg	C	U	3.100	ug/kg	C	U	2.800	ug/kg	C	U
beta-BHC	2.700	ug/kg	C	U	3.100	ug/kg	C	U	2.800	ug/kg	C	U
delta-BHC	2.700	ug/kg	C	U	3.100	ug/kg	C	U	2.800	ug/kg	C	U
gamma-BHC (Lindane)	2.700	ug/kg	C	U	3.100	ug/kg	C	U	2.800	ug/kg	C	U
gamma-Chlordane	2.700	ug/kg	C	U	3.100	ug/kg	C	U	2.800	ug/kg	C	U

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TABLE F-10

TABLE F-10
SOUTH FIELD
RI/FS SURFACE WATER RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	SF-SW-01 110422				SF-SW-02 110432			
SAMPLING DATE	03/24/93				03/25/93			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	UNFI	12.000	pc ¹ /L	UJ	UNFI	11.200	pc ¹ /L	UJ
GROSS ALPHA	UNFI	205.000	pc ¹ /L	-	UNFI	224.000	pc ¹ /L	-
GROSS BETA	UNFI	97.000	pc ¹ /L	J	UNFI	119.000	pc ¹ /L	-
NP-237	UNFI	0.153	pc ¹ /L	U	UNFI	0.220	pc ¹ /L	U
PU-238	UNFI	0.135	pc ¹ /L	UJ	UNFI	0.040	pc ¹ /L	UJ
PU-239/240	UNFI	0.111	pc ¹ /L	UJ	UNFI	0.060	pc ¹ /L	U
RA-226	UNFI	0.192	pc ¹ /L	UJ	UNFI	0.090	pc ¹ /L	U
RA-228	UNFI	2.400	pc ¹ /L	UJ	UNFI	1.530	pc ¹ /L	UJ
RU-106	UNFI	126.000	pc ¹ /L	UJ	UNFI	11.000	pc ¹ /L	UJ
SR-90	UNFI	1.260	pc ¹ /L	U	UNFI	1.370	pc ¹ /L	UJ
TC-99	UNFI	10.600	pc ¹ /L	UJ	UNFI	14.800	pc ¹ /L	UJ
TH-228	UNFI	0.417	pc ¹ /L	UJ	UNFI	0.190	pc ¹ /L	UJ
TH-230	UNFI	0.386	pc ¹ /L	UJ	UNFI	0.200	pc ¹ /L	UJ
TH-232	UNFI	0.253	pc ¹ /L	UJ	UNFI	0.130	pc ¹ /L	UJ
TH-TOTAL	UNFI	2.330	ug/L	UJ	UNFI	1.200	ug/L	UJ
U-234	UNFI	110.000	pc ¹ /L	-	UNFI	159.000	pc ¹ /L	-
U-235/236	UNFI	7.470	pc ¹ /L	-	UNFI	7.400	pc ¹ /L	-
U-238	UNFI	136.000	pc ¹ /L	-	UNFI	174.000	pc ¹ /L	-
U-TOTAL	UNFI	340.000	ug/L	-	UNFI	487.000	ug/L	-

F-10-1

0000747

TABLE F-10
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	SF-SW-01 110422				SF-SW-02 110432			
SAMPLING DATE	03/24/93				03/25/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Inorganics</u>								
Aluminum	FILT	0.178	mg/L	C -	FILT	0.183	mg/L	C -
Antimony	FILT	0.005	mg/L	C U	FILT	0.005	mg/L	C UJ
Arsenic	FILT	0.002	mg/L	C U	FILT	0.002	mg/L	C U
Barium	FILT	0.050	mg/L	C -	FILT	0.054	mg/L	C -
Beryllium	FILT	0.002	mg/L	C U	FILT	0.002	mg/L	C U
Cadmium	FILT	0.005	mg/L	C U	FILT	0.005	mg/L	C U
Calcium	FILT	103.000	mg/L	C -	FILT	109.000	mg/L	C -
Chromium	FILT	0.010	mg/L	C U	FILT	0.010	mg/L	C U
Cobalt	FILT	0.010	mg/L	C U	FILT	0.010	mg/L	C U
Copper	FILT	0.010	mg/L	C U	FILT	0.010	mg/L	C U
Cyanide	UNFI	0.002	mg/L	C U	UNFI	0.002	mg/L	C U
Iron	FILT	0.020	mg/L	C U	FILT	0.020	mg/L	C U
Lead	FILT	0.002	mg/L	C U	FILT	0.002	mg/L	C U
Magnesium	FILT	30.000	mg/L	C -	FILT	38.200	mg/L	C -
Manganese	FILT	0.010	mg/L	C U	FILT	0.010	mg/L	C U
Mercury	FILT	0.000	mg/L	C U	FILT	0.000	mg/L	C U
Molybdenum	FILT	0.020	mg/L	C U	FILT	0.020	mg/L	C U
Nickel	FILT	0.020	mg/L	C U	FILT	0.020	mg/L	C U
Potassium	FILT	1.270	mg/L	C -	FILT	1.050	mg/L	C -
Selenium	FILT	0.002	mg/L	C U	FILT	0.002	mg/L	C U
Silicon	FILT	4.220	mg/L	C -	FILT	5.840	mg/L	C -
Silver	FILT	0.010	mg/L	C U	FILT	0.010	mg/L	C U
Sodium	FILT	4.260	mg/L	C -	FILT	5.050	mg/L	C -
Thallium	FILT	0.002	mg/L	C U	FILT	0.002	mg/L	C U
Vanadium	FILT	0.010	mg/L	C U	FILT	0.010	mg/L	C U
Zinc	FILT	0.005	mg/L	C U	FILT	0.005	mg/L	C U
<u>Volatile Organics</u>								
1,1,1-Trichloroethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
1,1,2,2-Tetrachloroethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
1,1,2-Trichloroethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
1,1-Dichloroethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
1,1-Dichloroethene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
1,2-Dichloroethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
1,2-Dichloroethene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
1,2-Dichloropropane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
2-Butanone	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
2-Hexanone	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
4-Methyl-2-pentanone	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
Acetone	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
Benzene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U

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0000248

TABLE F-10
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	SF-SW-01 110422				SF-SW-02 110432			
SAMPLING DATE	03/24/93				03/25/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
Volatile Organics								
Bromodichloromethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
Bromoform	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
Bromomethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
Carbon Tetrachloride	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
Carbon disulfide	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
Chlorobenzene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
Chloroethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
Chloroform	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
Chloromethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
Dibromochloromethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
Ethylbenzene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
Methylene chloride	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
Styrene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
Tetrachloroethene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
Toluene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
Trichloroethene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
Vinyl Acetate	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
Vinyl chloride	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
Xylenes, Total	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
cis-1,3-Dichloropropene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
trans-1,3-Dichloropropene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U
Semivolatile Organics								
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
1,2-Dichlorobenzene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
1,2-Diphenylhydrazine	UNFI	10.000	ug/L	C UJ	NA	10.000	ug/L	C U
1,3-Dichlorobenzene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
1,4-Dichlorobenzene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
2,4,5-Trichlorophenol	UNFI	25.000	ug/L	C UJ	UNFI	25.000	ug/L	C U
2,4,6-Trichlorophenol	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
2,4-Dichlorophenol	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
2,4-Dimethylphenol	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
2,4-Dinitrophenol	UNFI	50.000	ug/L	C UJ	UNFI	50.000	ug/L	C R
2,4-Dinitrotoluene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
2,6-Dinitrotoluene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
2-Benzyl-4-chlorophenol	NA				UNFI	10.000	ug/L	C U
2-Chloronaphthalene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
2-Chlorophenol	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
2-Methylnaphthalene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
2-Methylphenol	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
2-Nitroaniline	UNFI	25.000	ug/L	C UJ	UNFI	25.000	ug/L	C U

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TABLE F-10
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	SF-SW-01 110422				SF-SW-02 110432			
SAMPLING DATE	03/24/93				03/25/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Semivolatile Organics</u>								
2-Nitrophenol	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C UJ
3,3'-Dichlorobenzidine	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
3-Nitroaniline	UNFI	25.000	ug/L	C UJ	UNFI	25.000	ug/L	C U
4,6-Dinitro-2-methylphenol	UNFI	25.000	ug/L	C UJ	UNFI	25.000	ug/L	C R
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
4-Methylphenol	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
4-Nitroaniline	UNFI	25.000	ug/L	C UJ	UNFI	25.000	ug/L	C U
4-Nitrophenol	UNFI	25.000	ug/L	C UJ	UNFI	25.000	ug/L	C U
Acenaphthene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Acenaphthylene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Anthracene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Benzo(a)anthracene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Benzo(a)pyrene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Benzo(b)fluoranthene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Benzo(g,h,i)perylene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Benzo(k)fluoranthene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Benzolic acid	UNFI	50.000	ug/L	C UJ	UNFI	50.000	ug/L	C R
Benzyl alcohol	UNFI	10.000	ug/L	C R	UNFI	10.000	ug/L	C R
Butyl benzyl phthalate	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Carbazole	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Chrysene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Di-n-butyl phthalate	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Di-n-octyl phthalate	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Dibenz(a,h)anthracene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Dibenzofuran	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Diethyl phthalate	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Dimethyl phthalate	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Fluoranthene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Fluorene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Hexachlorobenzene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Hexachlorobutadiene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Hexachlorocyclopentadiene	UNFI	10.000	ug/L	C R	UNFI	10.000	ug/L	C U
Hexachloroethane	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Indeno(1,2,3-cd)pyrene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Isophorone	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
N-Nitroso-di-n-propylamine	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
N-Nitrosodimethylamine	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C UJ
N-Nitrosodiphenylamine	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Naphthalene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Nitrobenzene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U

TABLE F-10
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	SF-SW-01 110422				SF-SW-02 110432			
SAMPLING DATE	03/24/93				03/25/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Semivolatile Organics</u>								
Pentachlorophenol	UNFI	25.000	ug/L	C UJ	UNFI	25.000	ug/L	C U
Phenanthrene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Phenol	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Pyrene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
Tributyl phosphate	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
bis(2-Chloroethoxy)methane	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
bis(2-Chloroethyl)ether	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
bis(2-Chloroisopropyl) ether	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
bis(2-Ethylhexyl) phthalate	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
p-Chloroaniline	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	C U
<u>Pesticide Organics/PCBs</u>								
4,4'-DDD	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U
4,4'-DDE	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U
4,4'-DDT	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U
Aldrin	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U
Aroclor-1016	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	C U
Aroclor-1221	UNFI	2.000	ug/L	C U	UNFI	2.000	ug/L	C U
Aroclor-1232	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	C U
Aroclor-1242	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	C U
Aroclor-1248	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	C U
Aroclor-1254	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	C U
Aroclor-1260	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	C U
Dieldrin	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U
Endosulfan II	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U
Endosulfan sulfate	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U
Endosulfan-I	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U
Endrin	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U
Endrin aldehyde	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U
Endrin ketone	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U
Heptachlor	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U
Heptachlor epoxide	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U
Methoxychlor	UNFI	0.500	ug/L	C U	UNFI	0.500	ug/L	C U
Toxaphene	UNFI	5.000	ug/L	C U	UNFI	5.000	ug/L	C U
alpha-BHC	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U
alpha-Chlordane	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U
beta-BHC	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U
delta-BHC	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U
gamma-BHC (Lindane)	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U
gamma-Chlordane	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U
<u>General Chemistry</u>								
Alkalinity	UNFI	315.000	mg/kg B	-	UNFI	355.300	mg/L B	-

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TABLE F-10
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	SF-SW-01				SF-SW-02			
SAMPLING DATE	03/24/93				03/25/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>General Chemistry</u>								
Ammonia	UNFI	0.100	mg/kg	B U	UNFI	0.100	mg/L	B U
Chloride	UNFI	3.700	mg/kg	B -	UNFI	4.400	mg/L	B -
Fluoride	UNFI	0.400	mg/kg	B -	UNFI	0.360	mg/L	B -
Nitrate	UNFI	0.100	mg/kg	B R	UNFI	0.120	mg/L	B R
Phenols	UNFI	0.010	mg/kg	B U	UNFI	0.010	mg/L	B U
Phosphorus	UNFI	0.070	mg/kg	B -	NA			
Sulfate	UNFI	71.740	mg/kg	B -	UNFI	87.610	mg/L	B -
Sulfide	UNFI	0.500	mg/kg	B U	UNFI	0.500	mg/L	B U
Total Kjeldahl Nitrogen	UNFI	0.350	mg/kg	B -	UNFI	0.220	mg/L	B -
Total Organic Carbon	UNFI	3.440	mg/kg	B -	UNFI	2.440	mg/L	B -
Total Organic Halides	UNFI	10.000	mg/kg	B U	UNFI	0.010	mg/L	B -
Total Organic Nitrogen	UNFI	0.350	mg/kg	B -	UNFI	0.220	mg/L	B -
Total Phosphorous	NA				UNFI	0.050	mg/L	B -

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TABLE F-11

TABLE F-11A
SOUTH FIELD
RI/FS GROUNDWATER RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1046 003854				1046 003089				1046 003370			
SAMPLING DATE	01/22/89				04/13/88				07/24/88			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R
NP-237	*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ
PU-238	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ
PU-239/240	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ
RA-226	*U	1.000	pCi/L	U	*U	1.000	pCi/L	R	*U	1.000	pCi/L	U
RA-228	*U	3.300	pCi/L	UJ	*U	3.000	pCi/L	R	*U	3.000	pCi/L	U
RU-106	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R
SR-90	*U	5.000	pCi/L	U	*U	5.000	pCi/L	U	*U	5.000	pCi/L	U
TC-99	*U	30.000	pCi/L	U	*U	30.000	pCi/L	U	*U	30.000	pCi/L	U
TH-228	*U	1.000	pCi/L	U	*U	1.100	pCi/L	J	*U	1.000	pCi/L	UJ
TH-230	*U	1.000	pCi/L	U	*U	1.000	pCi/L	J	*U	1.000	pCi/L	UJ
TH-232	*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ
TH-TOTAL	*U	4.000	ug/L	U	NA				*U	4.000	ug/L	UJ
U-234	*U	2.400	pCi/L	-	*U	62.500	pCi/L	-	*U	2.800	pCi/L	J
U-235/236	*U	1.000	pCi/L	U	*U	3.800	pCi/L	-	*U	1.000	pCi/L	UJ
U-238	*U	1.900	pCi/L	-	*U	79.700	pCi/L	-	*U	2.000	pCi/L	J
U-TOTAL	*U	6.000	ug/L	-	*U	203.000	ug/L	-	*U	6.000	ug/L	-

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TABLE F-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1046 003649				1046 066829				1065 003860			
SAMPLING DATE	10/23/88				12/12/89				01/22/89			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R	NA				*U	20.000	pCi/L	R
NP-237	*U	1.000	pCi/L	UJ	NA				*U	1.200	pCi/L	D
PU-238	*U	1.000	pCi/L	UJ	NA				*U	1.000	pCi/L	UJ
PU-239/240	*U	1.000	pCi/L	UJ	NA				*U	1.000	pCi/L	UJ
RA-226	*U	1.000	pCi/L	U	NA				*U	1.000	pCi/L	U
RA-228	*U	3.000	pCi/L	U	NA				*U	3.100	pCi/L	UJ
RU-106	*U	150.000	pCi/L	R	NA				*U	150.000	pCi/L	R
SR-90	*U	5.000	pCi/L	U	NA				*U	5.000	pCi/L	U
TC-99	*U	30.000	pCi/L	U	NA				*U	30.000	pCi/L	U
TC-99		NA			UNKN	30.000	pCi/L	U		NA		
TH-228	*U	1.000	pCi/L	UJ	NA				*U	1.200	pCi/L	D
TH-228		NA			UNKN	1.470	pCi/L	J		NA		
TH-230	*U	1.000	pCi/L	UJ	NA				*U	1.200	pCi/L	D
TH-230		NA			UNKN	1.760	pCi/L	-		NA		
TH-232	*U	1.000	pCi/L	UJ	NA				*U	1.200	pCi/L	D
TH-TOTAL	*U	4.000	ug/L	UJ	NA				*U	11.000	ug/L	D
U-234	*U	2.000	pCi/L	J	NA				*U	1.000	pCi/L	U
U-234		NA			UNKN	2.960	pCi/L	-		NA		
U-235		NA			UNKN	1.000	pCi/L	U		NA		
U-235/236	*U	1.000	pCi/L	UJ	NA				*U	1.000	pCi/L	U
U-238	*U	2.300	pCi/L	J	NA				*U	1.000	pCi/L	U
U-238		NA			UNKN	1.940	pCi/L	-		NA		
U-TOTAL	*U	6.000	ug/L	-	NA				*U	2.000	ug/L	-
U-TOTAL		NA			UNKN	8.360	ug/L	-		NA		

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000754

TABLE F-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1065 003136			1065 066834			1433 047040						
SAMPLING DATE	04/14/88			12/13/89			11/16/92						
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	
CS-137	*U	20.000	pCi/L	R		NA				NA			
CS-137		NA				NA			UNKN	15.200	pCi/L	UJ	
GROSS ALPHA		NA				NA			UNKN	2619.000	pCi/L	-	
GROSS BETA		NA				NA			UNKN	1286.000	pCi/L	-	
NP-237	*U	1.000	pCi/L	U		NA				NA			
PU-238	*U	1.000	pCi/L	U		NA				NA			
PU-238		NA				NA			UNKN	0.180	pCi/L	UJ	
PU-239/240	*U	1.000	pCi/L	U		NA				NA			
PU-239/240		NA				NA			UNKN	0.450	pCi/L	UJ	
RA-226	*U	1.000	pCi/L	R		NA			UNKN	0.610	pCi/L	U	
RA-226		NA				NA				NA			
RA-228	*U	3.000	pCi/L	R		NA			UNKN	3.640	pCi/L	UJ	
RA-228		NA				NA				NA			
RU-106	*U	150.000	pCi/L	R		NA			UNKN	114.000	pCi/L	UJ	
RU-106		NA				NA				NA			
SR-90	*U	5.000	pCi/L	U		NA			UNKN	1.510	pCi/L	UJ	
SR-90		NA				NA				NA			
TC-99	*U	30.000	pCi/L	UJ		NA			UNKN	9.800	pCi/L	UJ	
TC-99		NA				NA				NA			
TH-228	*U	1.000	pCi/L	U		UNKN	30.000	pCi/L	U	UNKN	0.220	pCi/L	UJ
TH-228		NA				NA	1.040	pCi/L	J	UNKN	0.320	pCi/L	U
TH-230	*U	1.000	pCi/L	U		UNKN	1.000	pCi/L	U	UNKN	0.370	pCi/L	J
TH-230		NA				NA				UNKN	3.400	ug/L	J
TH-232	*U	1.000	pCi/L	U		NA				NA			
TH-232		NA				NA							
TH-TOTAL		NA				NA							
U-234	*U	1.000	pCi/L	U		NA			UNKN	1530.000	pCi/L	J	
U-234		NA				UNKN	1.060	pCi/L	-		NA		
U-235		NA				UNKN	1.000	pCi/L	U		NA		
U-235/236	*U	1.000	pCi/L	U		NA							
U-238	*U	1.000	pCi/L	U		NA							
U-238		NA				NA							
U-TOTAL	*U	1.000	ug/L	-		UNKN	1.070	pCi/L	-	UNKN	1537.000	pCi/L	J
U-TOTAL		NA				UNKN	5.330	ug/L	-	UNKN	3969.000	ug/L	-

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TABLE F-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1433	SAMPLE NUMBER	047044	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
SAMPLING DATE	11/30/92								12/02/92				07/17/90		
RADIOLOGICAL PARAMETERS															
CS-137		NA						UNKN	17.700	pCi/L	UJ		NA		
GROSS ALPHA	U	372.000	pCi/L	J					NA				NA		
GROSS BETA	U	129.000	pCi/L	-					NA				NA		
GROSS BETA		NA						UNKN	739.000	pCi/L	-		NA		
NP-237		NA						UNKN	0.420	pCi/L	N		NA		
PU-238		NA						UNKN	0.240	pCi/L	U		NA		
PU-239/240		NA						UNKN	0.180	pCi/L	UJ		NA		
RA-226		NA						UNKN	0.170	pCi/L	J		NA		
RA-228		NA						UNKN	2.140	pCi/L	UJ		NA		
RU-106		NA						UNKN	125.000	pCi/L	UJ		NA		
SR-90		NA						UNKN	10.800	pCi/L	U		NA		
TC-99		NA						UNKN	13.100	pCi/L	UJ		NA		
TH-228		NA						UNKN	4.610	pCi/L	R		NA		
TH-230		NA						UNKN	2.180	pCi/L	R		NA		
TH-232		NA						UNKN	0.860	pCi/L	R		NA		
TH-TOTAL		NA						UNKN	7.720	ug/L			NA		
U-234		NA						UNKN	723.000	pCi/L	J		NA		
U-235/236		NA						UNKN	31.900	pCi/L	J		NA		
U-238		NA						UNKN	731.000	pCi/L	J		NA		
U-TOTAL		NA							NA			*U	293.000	ug/L	-
U-TOTAL		NA						UNKN	3390.000	ug/L	-		NA		

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0000756

TABLE F-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1516	1517	1517
SAMPLE NUMBER	046941	046944	046945
SAMPLING DATE	08/21/90	DUPLICATE 07/17/90	07/17/90
RADIOLOGICAL PARAMETERS	FLTD	RESULTS UNITS VQ	FLTD RESULTS UNITS VQ
CS-137		NA	UNKN 20.000 pc ¹ /L R
NP-237		NA	UNKN 1.000 pc ¹ /L U
PU-238		NA	UNKN 1.000 pc ¹ /L UJ
PU-239/240		NA	UNKN 1.000 pc ¹ /L UJ
RA-226		NA	UNKN 1.000 pc ¹ /L UJ
RA-228		NA	UNKN 3.000 pc ¹ /L U
RU-106		NA	UNKN 150.000 pc ¹ /L R
SR-90		NA	UNKN 5.000 pc ¹ /L UJ
TC-99		NA	UNKN 30.000 pc ¹ /L R
TH-228		NA	UNKN 1.000 pc ¹ /L UJ
TH-230		NA	UNKN 1.000 pc ¹ /L UJ
TH-232		NA	UNKN 1.000 pc ¹ /L UJ
TH-TOTAL		NA	UNKN 3.720 ug/L J
U-TOTAL	FILT	687.000 ug/L	NA
U-TOTAL		NA	UNKN 966.000 ug/L -
		UNKN 52.800 ug/L -	

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TABLE F-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1517 046946	1518 046965	2014 003869			
SAMPLING DATE	08/21/90	08/21/90	01/31/89			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS UNITS VQ	FLTD	RESULTS UNITS VQ	FLTD	RESULTS UNITS VQ
CS-137		NA		NA		20.000 pc ⁻¹ /L R
NP-237		NA		NA		1.000 pc ⁻¹ /L U
PU-238		NA		NA		1.000 pc ⁻¹ /L U
PU-239/240		NA		NA		1.000 pc ⁻¹ /L U
RA-226		NA		NA		1.400 pc ⁻¹ /L -
RA-228		NA		NA		3.200 pc ⁻¹ /L UJ
RU-106		NA		NA		150.000 pc ⁻¹ /L R
SR-90		NA		NA		5.000 pc ⁻¹ /L U
TC-99		NA		NA		30.000 pc ⁻¹ /L UJ
TH-228		NA		NA		1.000 pc ⁻¹ /L U
TH-230		NA		NA		1.000 pc ⁻¹ /L U
TH-232		NA		NA		1.000 pc ⁻¹ /L U
TH-TOTAL		NA		NA		3.000 ug/L U
U-234		NA		NA		4.200 pc ⁻¹ /L -
U-235/236		NA		NA		1.000 pc ⁻¹ /L U
U-238		NA		NA		5.700 pc ⁻¹ /L -
U-TOTAL		NA		NA		17.000 ug/L -
U-TOTAL	FILT	29.900 ug/L -	FILT	64.000 ug/L -		NA

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0000758

TABLE F-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pc ^t /L	R	*U	20.000	pc ^t /L	R	*U	20.000	pc ^t /L	R
NP-237	*P	1.000	pc ^t /L	R	*U	1.000	pc ^t /L	R	*P	1.000	pc ^t /L	C
PU-238	*P	1.000	pc ^t /L	UJ	*U	1.000	pc ^t /L	C	*P	1.000	pc ^t /L	C
PU-239/240	*P	1.000	pc ^t /L	UJ	*U	1.000	pc ^t /L	C	*P	1.000	pc ^t /L	C
RA-226	*P	1.000	pc ^t /L	R	*U	1.000	pc ^t /L	C	*P	1.000	pc ^t /L	C
RA-228	*P	3.000	pc ^t /L	UJ	*U	3.000	pc ^t /L	C	*P	3.000	pc ^t /L	C
RU-106	*P	150.000	pc ^t /L	R	*U	150.000	pc ^t /L	R	*P	150.000	pc ^t /L	R
SR-90	*P	5.000	pc ^t /L	R	*U	5.000	pc ^t /L	R	*P	5.000	pc ^t /L	C
TC-99	*P	30.000	pc ^t /L	UJ	*U	30.000	pc ^t /L	C	*P	30.000	pc ^t /L	C
TH-228	*P	1.000	pc ^t /L	UJ	*U	1.000	pc ^t /L	C	*P	1.000	pc ^t /L	C
TH-230	*P	1.200	pc ^t /L	J	*U	1.000	pc ^t /L	C	*P	1.000	pc ^t /L	C
TH-232	*P	1.000	pc ^t /L	UJ	*U	1.000	pc ^t /L	C	*P	1.000	pc ^t /L	C
TH-TOTAL		NA				2.200	ug/L			3.000	ug/L	C
U-234	*P	9.500	pc ^t /L	J	*U	7.150	pc ^t /L		*P	7.000	pc ^t /L	-
U-235/236	*P	1.600	pc ^t /L	J	*U	1.000	pc ^t /L		*P	1.000	pc ^t /L	-
U-238	*P	13.100	pc ^t /L	J	*U	8.950	pc ^t /L		*P	9.000	pc ^t /L	-
U-TOTAL	*P	32.000	ug/L	R	*U	36.000	ug/L		*P	33.000	ug/L	-

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TABLE F-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2014 003384				2014 003673				2046 003997			
SAMPLING DATE	07/28/88				11/06/88				02/02/89			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R
NP-237	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
PU-238	*U	1.000	pCi/L	R	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
PU-239/240	*U	1.000	pCi/L	R	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
RA-226	*U	1.000	pCi/L	U	*U	1.200	pCi/L	-	*U	1.000	pCi/L	U
RA-228	*U	3.000	pCi/L	U	*U	3.000	pCi/L	-	*U	3.000	pCi/L	U
RU-106	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R
SR-90	*U	5.000	pCi/L	U	*U	5.000	pCi/L	U	*U	5.000	pCi/L	U
TC-99	*U	30.000	pCi/L	U	*U	30.000	pCi/L	U	*U	30.000	pCi/L	U
TH-228	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
TH-230	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
TH-232	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
TH-TOTAL	*U	4.000	ug/L	U	*U	3.000	ug/L	U	*U	2.000	ug/L	U
U-234	*U	7.700	pCi/L	J	*U	9.800	pCi/L	-	*U	93.800	pCi/L	-
U-235/236	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	*U	4.300	pCi/L	-
U-238	*U	9.900	pCi/L	J	*U	13.500	pCi/L	-	*U	102.000	pCi/L	-
U-TOTAL	*U	33.000	ug/L	-	*U	35.000	ug/L	-	*U	309.000	ug/L	-

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000760

TABLE F-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2046 004219				2046 004097				2046 004159			
SAMPLING DATE	04/03/90				05/10/89				07/28/89			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R	*U	20.000	pCi/L	U	*U	20.000	pCi/L	R
NP-237	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
PU-238	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
PU-239/240	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
RA-226	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ
RA-228	*U	3.000	pCi/L	UJ	*U	3.000	pCi/L	UJ	*U	3.000	pCi/L	U
RU-106	*U	150.000	pCi/L	R	*U	150.000	pCi/L	U	*U	150.000	pCi/L	R
SR-90	*U	5.000	pCi/L	R	*U	5.000	pCi/L	U	*U	5.000	pCi/L	U
TC-99	*U	30.000	pCi/L	R	*U	36.800	pCi/L	UJ	*U	30.000	pCi/L	U
TH-228	*U	1.000	pCi/L	R	*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ
TH-230	*U	1.920	pCi/L	R	*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ
TH-232	*U	1.000	pCi/L	R	*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ
TH-TOTAL	*U	4.100	ug/L	R	*U	3.000	ug/L	U	*U	6.000	ug/L	UJ
U-234	*U	199.000	pCi/L	J	*U	219.000	pCi/L	-	*U	86.900	pCi/L	-
U-235/236	*U	11.500	pCi/L	J	*U	9.700	pCi/L	-	*U	3.800	pCi/L	-
U-238	*U	206.000	pCi/L	J	*U	231.000	pCi/L	-	*U	87.700	pCi/L	-
U-TOTAL	*U	907.000	ug/L	-	*U	851.000	ug/L	-	*U	232.000	ug/L	-

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000261

TABLE F-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2048 003994				2048 004100				2065 003538 DUPLICATE 02/02/89			
SAMPLING DATE	02/09/89				05/02/89							
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R	*U	20.000	pCi/L	U	FILT	NA	pCi/L	R
CS-137		NA				NA			UNFI	20.000	pCi/L	R
CS-137		NA				NA				20.000	pCi/L	R
NP-237	*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ	FILT	NA	pCi/L	U
NP-237		NA				NA			UNFI	1.000	pCi/L	D
NP-237		NA				NA				1.000	pCi/L	D
PU-238	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	FILT	NA	pCi/L	U
PU-238		NA				NA			UNFI	1.000	pCi/L	U
PU-238		NA				NA				1.000	pCi/L	U
PU-239/240	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	FILT	NA	pCi/L	U
PU-239/240		NA				NA			UNFI	1.000	pCi/L	U
PU-239/240		NA				NA				1.000	pCi/L	U
RA-226	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	FILT	NA	pCi/L	U
RA-226		NA				NA			UNFI	1.000	pCi/L	U
RA-226		NA				NA				1.000	pCi/L	U
RA-228	*U	3.000	pCi/L	UJ	*U	3.000	pCi/L	UJ	FILT	NA	pCi/L	UJ
RA-228		NA				NA			UNFI	3.000	pCi/L	UJ
RA-228		NA				NA				3.000	pCi/L	UJ
RU-106	*U	150.000	pCi/L	R	*U	150.000	pCi/L	U	FILT	NA	pCi/L	R
RU-106		NA				NA			UNFI	150.000	pCi/L	R
RU-106		NA				NA				150.000	pCi/L	R
SR-90	*U	5.000	pCi/L	UJ	*U	5.000	pCi/L	U	FILT	NA	pCi/L	U
SR-90		NA				NA			UNFI	5.000	pCi/L	U
SR-90		NA				NA				5.000	pCi/L	U
TC-99	*U	30.000	pCi/L	U	*U	30.000	pCi/L	U	FILT	NA	pCi/L	U
TC-99		NA				NA			UNFI	30.000	pCi/L	U
TC-99		NA				NA				30.000	pCi/L	U
TH-228	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	FILT	NA	pCi/L	J
TH-228		NA				NA			UNFI	1.200	pCi/L	J
TH-228		NA				NA				1.400	pCi/L	J
TH-230	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	FILT	NA	pCi/L	-
TH-230		NA				NA			UNFI	1.600	pCi/L	-
TH-230		NA				NA				1.100	pCi/L	D
TH-232	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	FILT	NA	pCi/L	-
TH-232		NA				NA			UNFI	1.400	pCi/L	-
TH-232		NA				NA				1.100	pCi/L	D
TH-TOTAL	*U	2.000	ug/L	U	*U	3.000	ug/L	U	FILT	NA	ug/L	-
TH-TOTAL		NA				NA			UNFI	13.000	ug/L	-
TH-TOTAL		NA				NA				10.000	ug/L	D
U-234	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	FILT	NA	pCi/L	-
U-234		NA				NA			UNFI	6.000	pCi/L	-
U-234		NA				NA				5.300	pCi/L	-

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00002862

TABLE F-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	2048 003994			2048 004100			2065 003538 DUPLICATE 02/02/89					
SAMPLING DATE	02/09/89			05/02/89								
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
U-235/236	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	NA	1.000	pCi/L	U
U-235/236		NA				NA			FILT	1.000	pCi/L	U
U-235/236		NA				NA			UNFI	1.000	pCi/L	U
U-238	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	NA	3.700	pCi/L	-
U-238		NA				NA			FILT	3.900	pCi/L	-
U-238		NA				NA			UNFI	NA		
U-TOTAL	*U	1.000	ug/L	UJ	*U	1.000	ug/L	U	FILT	13.000	ug/L	-
U-TOTAL		NA				NA			UNFI	9.000	ug/L	-
U-TOTAL		NA										

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TABLE F-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2065 003884				2065 004225				2065 003095			
SAMPLING DATE	02/02/89				04/09/90				04/19/88			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137		NA			*U	20.000	pCi/L	UJ	*U	20.000	pCi/L	R
CS-137	FILT	20.000	pCi/L	UJ		NA				NA		NA
CS-137	UNFI	20.000	pCi/L	NV		NA				NA		NA
NP-237		NA			*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ
NP-237	FILT	1.000	pCi/L	UJ		NA				NA		NA
NP-237	UNFI	1.000	pCi/L	NV		NA				NA		NA
PU-238		NA			*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ
PU-238	FILT	1.000	pCi/L	NV		NA				NA		NA
PU-238	UNFI	1.000	pCi/L	NV		NA				NA		NA
PU-239/240		NA			*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ
PU-239/240	FILT	1.000	pCi/L	NV		NA				NA		NA
PU-239/240	UNFI	1.000	pCi/L	NV		NA				NA		NA
RA-226		NA			*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ
RA-226	FILT	1.000	pCi/L	NV		NA				NA		NA
RA-226	UNFI	1.000	pCi/L	NV		NA				NA		NA
RA-228		NA			*U	3.000	pCi/L	R	*U	3.000	pCi/L	UJ
RA-228	FILT	3.000	pCi/L	NV		NA				NA		NA
RA-228	UNFI	3.000	pCi/L	NV		NA				NA		NA
RU-106		NA			*U	150.000	pCi/L	R	*U	150.000	pCi/L	R
RU-106	FILT	150.000	pCi/L	UJ		NA				NA		NA
RU-106	UNFI	150.000	pCi/L	NV		NA				NA		NA
SR-90		NA			*U	5.000	pCi/L	U	*U	5.000	pCi/L	U
SR-90	FILT	5.000	pCi/L	NV		NA				NA		NA
SR-90	UNFI	5.000	pCi/L	NV		NA				NA		NA
TC-99		NA			*U	30.000	pCi/L	UJ	*U	30.000	pCi/L	U
TC-99	FILT	30.000	pCi/L	UJ		NA				NA		NA
TC-99	UNFI	30.000	pCi/L	NV		NA				NA		NA
TH-228		NA			*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
TH-228	FILT	2.300	pCi/L	J		NA				NA		NA
TH-228	UNFI	1.200	pCi/L	NV		NA				NA		NA
TH-230		NA			*U	1.000	pCi/L	U	*U	1.200	pCi/L	-
TH-230	FILT	1.000	pCi/L	UJ		NA				NA		NA
TH-230	UNFI	1.000	pCi/L	NV		NA				NA		NA
TH-232		NA			*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
TH-232	FILT	1.000	pCi/L	UJ		NA				NA		NA
TH-232	UNFI	1.000	pCi/L	NV		NA				NA		NA
TH-TOTAL		NA			*U	4.500	ug/L	U				
TH-TOTAL	FILT	8.000	ug/L	UJ		NA				NA		NA
TH-TOTAL	UNFI	7.000	ug/L	NV		NA				NA		NA
U-234		NA			*U	3.890	pCi/L	-	*U	5.100	pCi/L	-
U-234	FILT	5.000	pCi/L	J		NA				NA		NA
U-234	UNFI	3.700	pCi/L	NV		NA				NA		NA

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TABLE F-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	2065 003884			2065 004225			2065 003095					
SAMPLING DATE	02/02/89			04/09/90			04/19/88					
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
U-235/236		NA			*U	1.000	pc ⁻¹ /L	U	*U	1.000	pc ⁻¹ /L	U
U-235/236	FILT	1.000	pc ⁻¹ /L	U3		NA				NA		
U-235/236	UNFI	1.000	pc ⁻¹ /L	NV		NA				NA		
U-238		NA			*U	3.780	pc ⁻¹ /L	-	*U	3.300	pc ⁻¹ /L	-
U-238	FILT	3.500	pc ⁻¹ /L	J		NA				NA		
U-238	UNFI	3.300	pc ⁻¹ /L	NV		NA				NA		
U-TOTAL		NA			*U	11.400	ug/L	-	*U	3.000	ug/L	J
U-TOTAL	FILT	13.000	ug/L	NV		NA				NA		
U-TOTAL	UNFI	8.000	ug/L	NV		NA				NA		

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000765

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TABLE F-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2065 004163				2065 004168 DUPLICATE 07/30/89				2065 003438			
SAMPLING DATE	07/30/89								08/04/88			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	UJ	*U	20.000	pCi/L	UJ	FILT	NA	pCi/L	R
CS-137		NA				NA			UNFI	20.000	pCi/L	R
CS-137		NA				NA				NA		
NP-237	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	FILT	1.000	pCi/L	UJ
NP-237		NA				NA			UNFI	1.000	pCi/L	UJ
NP-237		NA				NA				NA		
PU-238	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	FILT	1.000	pCi/L	UJ
PU-238		NA				NA			UNFI	1.000	pCi/L	UJ
PU-238		NA				NA				NA		
PU-239/240	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	FILT	1.000	pCi/L	UJ
PU-239/240		NA				NA			UNFI	1.000	pCi/L	UJ
PU-239/240		NA				NA				NA		
RA-226	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ	FILT	1.000	pCi/L	R
RA-226		NA				NA			UNFI	1.000	pCi/L	R
RA-226		NA				NA				NA		
RA-228	*U	3.000	pCi/L	U	*U	3.000	pCi/L	U	FILT	3.000	pCi/L	U
RA-228		NA				NA			UNFI	3.000	pCi/L	U
RA-228		NA				NA				NA		
RU-106	*U	150.000	pCi/L	UJ	*U	150.000	pCi/L	UJ	FILT	150.000	pCi/L	R
RU-106		NA				NA			UNFI	150.000	pCi/L	R
RU-106		NA				NA				NA		
SR-90	*U	5.000	pCi/L	U	*U	5.000	pCi/L	U	FILT	5.000	pCi/L	U
SR-90		NA				NA			UNFI	5.000	pCi/L	U
SR-90		NA				NA				NA		
TC-99	*U	30.000	pCi/L	U	*U	30.000	pCi/L	U	FILT	30.000	pCi/L	U
TC-99		NA				NA			UNFI	30.000	pCi/L	U
TC-99		NA				NA				NA		
TH-228	*U	1.300	pCi/L	UJ	*U	1.100	pCi/L	UJ	FILT	1.000	pCi/L	UJ
TH-228		NA				NA			UNFI	1.000	pCi/L	UJ
TH-228		NA				NA				NA		
TH-230	*U	1.300	pCi/L	UJ	*U	1.100	pCi/L	UJ	FILT	1.000	pCi/L	UJ
TH-230		NA				NA			UNFI	1.000	pCi/L	UJ
TH-230		NA				NA				NA		
TH-232	*U	1.300	pCi/L	UJ	*U	1.100	pCi/L	UJ	FILT	1.000	pCi/L	UJ
TH-232		NA				NA			UNFI	1.000	pCi/L	UJ
TH-232		NA				NA				NA		
TH-TOTAL	*U	12.000	ug/L	UJ	*U	10.000	ug/L	UJ	FILT	10.000	ug/L	UJ
TH-TOTAL		NA				NA			UNFI	7.000	ug/L	UJ
TH-TOTAL		NA				NA				NA		
U-234	*U	5.500	pCi/L	-	*U	4.100	pCi/L	-	FILT	4.800	pCi/L	J
U-234		NA				NA			UNFI	4.600	pCi/L	J
U-234		NA				NA				NA		

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000266

TABLE F-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2065 004163			2065 004168 DUPLICATE 07/30/89			2065 003438					
SAMPLING DATE	07/30/89						08/04/88					
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
U-235/236	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U		NA	pCi/L	UJ
U-235/236		NA				NA			FILT	1.000	pCi/L	UJ
U-235/236		NA				NA			UNFI	1.000	pCi/L	UJ
U-238	*U	5.300	pCi/L	-	*U	4.000	pCi/L	-		NA		
U-238		NA				NA			FILT	4.100	pCi/L	J
U-238		NA				NA			UNFI	4.000	pCi/L	J
U-TOTAL	*U	12.000	ug/L	-	*U	11.000	ug/L	-		NA		
U-TOTAL		NA				NA			FILT	10.000	ug/L	-
U-TOTAL		NA				NA			UNFI	9.000	ug/L	-

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TABLE F-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2065 003693				2385 004192				2385 004303			
SAMPLING DATE	11/08/88				05/06/90				07/10/90			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137		NA			*U	20.000	pCi/L	UJ		NA		
CS-137	FILT	20.000	pCi/L	R		NA				NA		
CS-137	UNFI	20.000	pCi/L	R		NA				NA		
GROSS ALPHA		NA				NA				*U	72.300	pCi/L NV
GROSS BETA		NA				NA				*U	52.900	pCi/L NV
NP-237		NA			*U	1.000	pCi/L	U		*U	1.000	pCi/L UJ
NP-237	FILT	1.000	pCi/L	UJ		NA				NA		
NP-237	UNFI	1.000	pCi/L	UJ		NA				NA		
PU-238		NA			*U	1.000	pCi/L	U		*U	1.000	pCi/L R
PU-238	FILT	1.000	pCi/L	UJ		NA				NA		
PU-238	UNFI	1.000	pCi/L	UJ		NA				NA		
PU-239/240		NA			*U	1.000	pCi/L	U		*U	1.000	pCi/L R
PU-239/240	FILT	1.000	pCi/L	UJ		NA				NA		
PU-239/240	UNFI	1.000	pCi/L	UJ		NA				NA		
RA-226		NA			*U	1.230	pCi/L	NV		*U	0.100	pCi/L UJ
RA-226	FILT	1.000	pCi/L	U		NA				NA		
RA-226	UNFI	1.000	pCi/L	U		NA				NA		
RA-228		NA			*U	3.000	pCi/L	UJ		*U	2.000	pCi/L UJ
RA-228	FILT	3.000	pCi/L	U		NA				NA		
RA-228	UNFI	3.000	pCi/L	U		NA				NA		
RU-106		NA			*U	150.000	pCi/L	UJ				
RU-106	FILT	150.000	pCi/L	R		NA						
RU-106	UNFI	150.000	pCi/L	R		NA						
SR-90		NA			*U	5.000	pCi/L	UJ		*U	5.000	pCi/L U
SR-90	FILT	5.000	pCi/L	U		NA				NA		
SR-90	UNFI	5.000	pCi/L	U		NA				NA		
TC-99		NA			*U	30.000	pCi/L	UJ		*U	30.000	pCi/L UJ
TC-99	FILT	30.000	pCi/L	U		NA				NA		
TC-99	UNFI	30.000	pCi/L	U		NA				NA		
TH-228		NA			*U	1.000	pCi/L	UJ		*U	1.160	pCi/L J
TH-228	FILT	1.000	pCi/L	UJ		NA				NA		
TH-228	UNFI	1.000	pCi/L	UJ		NA				NA		
TH-230		NA			*U	1.780	pCi/L	J		*U	1.000	pCi/L UJ
TH-230	FILT	1.000	pCi/L	UJ		NA				NA		
TH-230	UNFI	1.000	pCi/L	UJ		NA				NA		
TH-232		NA			*U	1.490	pCi/L	J		*U	1.000	pCi/L UJ
TH-232	FILT	1.000	pCi/L	UJ		NA				NA		
TH-232	UNFI	1.000	pCi/L	UJ		NA				NA		
TH-TOTAL		NA			*U	13.500	ug/L	J		*U	1.900	ug/L UJ
TH-TOTAL	FILT	5.000	ug/L	UJ		NA				NA		
TH-TOTAL	UNFI	3.000	ug/L	UJ		NA				NA		
U-234		NA			*U	51.400	pCi/L	J		*U	34.800	pCi/L J

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TABLE F-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2065 003693				2385 004192				2385 004303			
SAMPLING DATE	11/08/88				05/06/90				07/10/90			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
U-234	FILT	4.700	pct/L	J		NA				NA		
U-234	UNFI	2.600	pct/L	J		NA				NA		
U-235/236		NA			*U	1.780	pct/L	J	*U	1.810	pct/L	J
U-235/236	FILT	1.000	pct/L	UJ		NA				NA		
U-235/236	UNFI	1.000	pct/L	UJ		NA				NA		
U-238		NA			*U	51.400	pct/L	J	*U	36.200	pct/L	J
U-238	FILT	3.900	pct/L	J		NA				NA		
U-238	UNFI	2.600	pct/L	J		NA				NA		
U-TOTAL		NA			*U	204.000	ug/L	J	*U	108.000	ug/L	J
U-TOTAL	FILT	12.000	ug/L	-		NA				NA		
U-TOTAL	UNFI	7.000	ug/L	-		NA				NA		

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TABLE F-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	3014 003870				3014 004239			
SAMPLING DATE	01/31/89				04/01/90			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R
NP-237	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
PU-238	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
PU-239/240	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
RA-226	*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ
RA-228	*U	3.100	pCi/L	UJ	*U	3.000	pCi/L	UJ
RU-106	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R
SR-90	*U	5.000	pCi/L	U	*U	5.000	pCi/L	UJ
TC-99	*U	30.000	pCi/L	UJ	*U	30.000	pCi/L	UJ
TH-228	*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ
TH-230	*U	1.000	pCi/L	U	*U	1.120	pCi/L	J
TH-232	*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ
TH-TOTAL	*U	3.000	ug/L	U	*U	2.900	ug/L	UJ
U-234	*U	6.900	pCi/L	-	*U	17.100	pCi/L	J
U-235/236	*U	1.000	pCi/L	U	*U	1.470	pCi/L	J
U-238	*U	8.900	pCi/L	-	*U	16.400	pCi/L	J
U-TOTAL	*U	30.000	ug/L	-	*U	35.300	ug/L	-

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0000270

TABLE F-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	3014 003084				3014 003385				3014 003672			
SAMPLING DATE	04/08/88				07/28/88				11/06/88			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R
NP-237	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
PU-238	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	R	*U	1.000	pCi/L	U
PU-239/240	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	R	*U	1.000	pCi/L	U
RA-226	*U	1.000	pCi/L	R	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
RA-228	*U	3.000	pCi/L	U	*U	3.000	pCi/L	U	*U	3.000	pCi/L	U
RU-106	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R
SR-90	*U	5.000	pCi/L	UJ	*U	5.000	pCi/L	U	*U	5.000	pCi/L	U
TC-99	*U	30.000	pCi/L	U	*U	30.000	pCi/L	U	*U	30.000	pCi/L	U
TH-228	*U	2.500	pCi/L	J	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U
TH-230	*U	1.400	pCi/L	J	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U
TH-232	*U	1.100	pCi/L	J	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U
TH-TOTAL		NA			*U	7.000	ug/L	J	*U	7.000	ug/L	D
U-234	*U	6.700	pCi/L	J	*U	7.300	pCi/L	J	*U	7.100	pCi/L	-
U-235/236	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U
U-238	*U	8.500	pCi/L	J	*U	10.000	pCi/L	J	*U	8.700	pCi/L	-
U-TOTAL	*U	23.000	ug/L	J	*U	29.000	ug/L	-	*U	28.000	ug/L	J

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LA2000

TABLE F-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	3045 004198			3046 004207			3046 004332					
SAMPLING DATE	05/23/90			06/15/90			08/24/90					
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R
NP-237	*U	1.000	pCi/L	U	*U	1.000	pCi/L	R		NA		
PU-238	*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ		NA		
PU-239/240	*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ		NA		
RA-226	*U	1.000	pCi/L	NV	*U	2.400	pCi/L	-	*U	1.000	pCi/L	U
RA-228	*U	3.000	pCi/L	U	*U	3.000	pCi/L	R	*U	3.000	pCi/L	UJ
RU-106		150.000	pCi/L	R		150.000	pCi/L	R		150.000	pCi/L	R
SR-90		5.000	pCi/L	U		5.000	pCi/L	U		5.000	pCi/L	U
TC-99		30.000	pCi/L	U		30.000	pCi/L	UJ		31.000	pCi/L	U
TH-228		1.000	pCi/L	U		1.000	pCi/L	UJ		1.590	pCi/L	-
TH-230		1.000	pCi/L	U		1.000	pCi/L	UJ		1.000	pCi/L	U
TH-232		1.000	pCi/L	U		1.000	pCi/L	UJ		1.000	pCi/L	U
TH-TOTAL		6.700	ug/L	-		3.100	ug/L	-		1.700	ug/L	-
U-234		1.000	pCi/L	-		1.000	pCi/L	-		1.670	pCi/L	-
U-235/236		1.000	pCi/L	-		1.000	pCi/L	-		1.000	pCi/L	-
U-238		1.000	pCi/L	-		1.000	pCi/L	-		1.000	pCi/L	-
U-TOTAL		6.020	ug/L	-		1.740	ug/L	-		3.030	ug/L	-

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TABLE F-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	3065 003995			3065 004249			3065 004098					
SAMPLING DATE	01/25/89			04/09/90			05/31/89					
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R
NP-237	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
PU-238	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
PU-239/240	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
RA-226	*U	1.000	pCi/L	R	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
RA-228	*U	3.000	pCi/L	R	*U	3.000	pCi/L	R	*U	3.000	pCi/L	U
RU-106	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R
SR-90	*U	5.000	pCi/L	U	*U	5.000	pCi/L	U	*U	5.000	pCi/L	U
TC-99	*U	30.000	pCi/L	U	*U	30.000	pCi/L	U	*U	30.000	pCi/L	U
TH-228	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
TH-230	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
TH-232	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
TH-TOTAL	*U	2.000	ug/L	U	*U	1.800	ug/L	U	*U	2.000	ug/L	U
U-234	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
U-235/236	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
U-238	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
U-TOTAL	*U	1.000	ug/L	U	*U	0.793	ug/L	U	*U	1.000	ug/L	U

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000773

TABLE F-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	3385 004363				3385 004309				4014 003871			
SAMPLING DATE	01/10/91				07/24/90				01/31/89			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R
NP-237	*U	2.400	pCi/L	D	*U	1.000	pCi/L	D	*U	1.000	pCi/L	D
PU-238	*U	1.000	pCi/L	D	*U	1.000	pCi/L	D	*U	1.000	pCi/L	D
PU-239/240	*U	1.000	pCi/L	D	*U	1.000	pCi/L	D	*U	1.000	pCi/L	D
RA-226	*U	1.000	pCi/L	D	NA				*U	1.000	pCi/L	D
RA-228	*U	3.000	pCi/L	UJ	NA				*U	3.000	pCi/L	UJ
RU-106	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R
SR-90	*U	5.000	pCi/L	UJ	NA				*U	5.000	pCi/L	UJ
TC-99	*U	31.000	pCi/L	D	NA				*U	30.000	pCi/L	D
TH-228	*U	1.210	pCi/L	J	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	
TH-230	*U	1.000	pCi/L	D	*U	2.210	pCi/L	J	*U	1.000	pCi/L	D
TH-232	*U	1.000	pCi/L	D	*U	1.040	pCi/L	J	*U	1.000	pCi/L	D
TH-TOTAL	*U	2.400	ug/L	D	*U	9.380	ug/L	J	*U	2.000	ug/L	D
U-234	*U	1.370	pCi/L	D	*U	1.130	pCi/L	R	*U	1.000	pCi/L	D
U-235/236	*U	1.000	pCi/L	D	*U	1.000	pCi/L	R	*U	1.000	pCi/L	D
U-238	*U	1.000	pCi/L	D	*U	1.000	pCi/L	R	*U	1.000	pCi/L	D
U-TOTAL	*U	2.940	ug/L	-	*U	2.280	ug/L	R	*U	1.000	ug/L	D

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000774

TABLE F-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	4014 004089				4014 066866				4016 003996			
SAMPLING DATE	05/01/89				12/13/89				01/20/89			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R		NA			*U	20.000	pCi/L	R
NP-237	*U	1.000	pCi/L	UJ		NA			*U	1.000	pCi/L	U
PU-238	*U	1.000	pCi/L	U		NA			*U	1.000	pCi/L	U
PU-239/240	*U	1.000	pCi/L	U		NA			*U	1.000	pCi/L	U
RA-226	*U	1.000	pCi/L	U		NA			*U	1.000	pCi/L	U
RA-228	*U	3.000	pCi/L	UJ		NA			*U	3.000	pCi/L	U
RU-106	*U	150.000	pCi/L	R		NA			*U	150.000	pCi/L	R
SR-90	*U	5.000	pCi/L	U		NA			*U	5.000	pCi/L	U
TC-99	*U	30.000	pCi/L	U		NA			*U	30.000	pCi/L	U
TC-99		NA			UNKN	30.000	pCi/L	U		NA		
TH-228	*U	1.000	pCi/L	U		NA			*U	1.000	pCi/L	U
TH-228		NA			UNKN	1.000	pCi/L	U		NA		
TH-230	*U	1.000	pCi/L	U		NA			*U	1.000	pCi/L	U
TH-230		NA			UNKN	1.000	pCi/L	U		NA		
TH-232	*U	1.000	pCi/L	U		NA			*U	1.000	pCi/L	U
TH-TOTAL	*U	4.000	ug/L	U		NA			*U	9.000	ug/L	DU
U-234	*U	1.000	pCi/L	U		NA			*U	1.000	pCi/L	U
U-234		NA			UNKN	1.000	pCi/L	U		NA		
U-235		NA			UNKN	1.000	pCi/L	U		NA		
U-235/236	*U	1.000	pCi/L	U		NA			*U	1.000	pCi/L	U
U-238	*U	1.000	pCi/L	U		NA			*U	1.000	pCi/L	U
U-238		NA			UNKN	1.000	pCi/L	U		NA		
U-TOTAL	*U	1.000	ug/L	U		NA			*U	1.000	ug/L	UJ
U-TOTAL		NA			UNKN	1.000	ug/L	U		NA		

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TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1046				1046				1046						
SAMPLE NUMBER	003089				003370				003649						
SAMPLING DATE	04/13/88				07/24/88				10/23/88						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>															
Arsenic	FILT	NA				*F	0.010	mg/L	C	U	FILT	NA			
Arsenic	FILT	0.200	mg/L	C	UJ	*F	NA				FILT	0.002	mg/L	C	U
Barium	FILT	NA				*F	0.500	mg/L	C	U	FILT	NA			
Barium	FILT	0.119	mg/L	C	R	*F	NA				FILT	0.102	mg/L	C	-
Cadmium	FILT	NA				*F	0.005	mg/L	C	U	FILT	NA			
Cadmium	FILT	0.002	mg/L	C	U	*F	NA				FILT	0.002	mg/L	C	U
Calcium	FILT	NA				*F	110.000	mg/L	C	-	FILT	NA			
Calcium	FILT	103.000	mg/L	C	J	*F	NA				FILT	99.900	mg/L	C	-
Chromium	FILT	NA				*F	0.010	mg/L	C	U	FILT	NA			
Chromium	FILT	0.020	mg/L	C	U	*F	NA				FILT	0.020	mg/L	C	U
Copper	FILT	NA				*F	0.010	mg/L	C	U	FILT	NA			
Copper	FILT	0.010	mg/L	C	UJ	*F	NA				FILT	0.010	mg/L	C	U
Iron	FILT	NA				*F	0.100	mg/L	C	U	FILT	NA			
Iron	FILT	0.005	mg/L	C	U	*F	NA				FILT	0.051	mg/L	C	-
Lead	FILT	NA				*F	0.005	mg/L	C	U	FILT	NA			
Lead	FILT	0.050	mg/L	C	UJ	*F	NA				FILT	0.003	mg/L	C	J
Magnesium	FILT	NA				*F	41.000	mg/L	C	-	FILT	NA			
Magnesium	FILT	41.200	mg/L	C	J	*F	NA				FILT	37.600	mg/L	C	-
Manganese	FILT	NA				*F	0.060	mg/L	C	-	FILT	NA			
Manganese	FILT	0.167	mg/L	C	-	*F	NA				FILT	0.057	mg/L	C	-
Mercury	FILT	NA				*F	0.000	mg/L	C	U	FILT	NA			
Mercury	FILT	0.000	mg/L	C	UJ	*F	NA				FILT	0.000	mg/L	C	UJ
Molybdenum	FILT	NA				*F	0.050	mg/L	C	U	FILT	NA			
Molybdenum	FILT	0.020	mg/L	C	U	*F	NA				FILT	0.020	mg/L	C	U
Nickel	FILT	NA				*F	0.030	mg/L	C	U	FILT	NA			
Nickel	FILT	0.020	mg/L	C	U	*F	NA				FILT	0.020	mg/L	C	U
Potassium	FILT	NA				*F	10.000	mg/L	C	-	FILT	NA			
Potassium	FILT	1.010	mg/L	C	J	*F	NA				FILT	1.120	mg/L	C	-
Selenium	FILT	NA				*F	0.005	mg/L	C	UJ	FILT	NA			
Selenium	FILT	0.200	mg/L	C	UJ	*F	NA				FILT	0.002	mg/L	C	J
Silver	FILT	NA				*F	0.010	mg/L	C	U	FILT	NA			
Silver	FILT	0.010	mg/L	C	UJ	*F	NA				FILT	0.001	mg/L	C	U
Sodium	FILT	NA				*F	11.000	mg/L	C	-	FILT	NA			
Sodium	FILT	6.890	mg/L	C	J	*F	NA				FILT	6.500	mg/L	C	-
<u>General Chemistry</u>															
Ammonia	UNFI	0.100	mg/L	C	UJ	UNFI	0.020	mg/L	C	U	UNFI	0.100	mg/L	C	U
Chloride	UNFI	2.700	mg/L	C	J	UNFI	21.000	mg/L	C	J	UNFI	20.000	mg/L	C	-
Fluoride	UNFI	0.380	mg/L	C	-	UNFI	0.330	mg/L	C	J	UNFI	0.350	mg/L	C	-
Nitrate	UNFI	0.100	mg/L	C	R	UNFI	0.310	mg/L	C	J	UNFI	0.100	mg/L	C	UJ
Phenols	UNFI	0.020	mg/L	C	-	UNFI	0.002	mg/L	C	U	UNFI	0.020	mg/L	C	J

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0002726

TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1046	SAMPLE NUMBER	003089	BORING NUMBER	1046	SAMPLE NUMBER	003370	BORING NUMBER	1046	SAMPLE NUMBER	003649										
SAMPLING DATE	04/13/88	SAMPLING DATE	07/24/88	SAMPLING DATE	10/23/88	CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>General Chemistry</u>																					
Phosphorus	UNFI	0.050	mg/L	C	UJ	UNFI	0.100	mg/L	C	-	UNFI	0.880	mg/L	C	-	UNFI	65.000	mg/L	C	J	
Sulfate	UNFI	12.000	mg/L	C	J	UNFI	89.000	mg/L	C	-	UNFI	0.500	mg/L	C	UJ	UNFI	0.500	mg/L	C	U	
Total Kjeldahl Nitrogen	NA					NA					UNFI	0.050	mg/L	C	U	UNFI	0.050	mg/L	C	U	
Total Organic Halides	NA					NA					UNFI	0.500	mg/L	C	UJ	UNFI	0.500	mg/L	C	-	
Total Organic Nitrogen	UNFI	0.100	mg/L	C	UJ	UNFI	0.050	mg/L	C	R	UNFI	0.500	mg/L	C	-	UNFI	0.500	mg/L	C	-	

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000782

TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1046				1065				1065						
SAMPLE NUMBER	003854				003136				003860						
SAMPLING DATE	01/22/89				04/14/88				01/22/89						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>															
Arsenic	FILT	0.002	mg/L	C	U	FILT	0.200	mg/L	C	UJ	FILT	0.002	mg/L	C	U
Barium	FILT	0.069	mg/L	C	-	FILT	0.034	mg/L	C	J	FILT	0.042	mg/L	C	-
Cadmium	FILT	0.008	mg/L	C	-	FILT	0.005	mg/L	C	UJ	FILT	0.006	mg/L	C	-
Calcium	FILT	122.000	mg/L	C	-	FILT	89.000	mg/L	C	J	FILT	97.400	mg/L	C	-
Chromium	FILT	0.027	mg/L	C	-	FILT	0.020	mg/L	C	UJ	FILT	0.023	mg/L	C	-
Copper	FILT	0.013	mg/L	C	-	FILT	0.010	mg/L	C	UJ	FILT	0.019	mg/L	C	-
Iron	FILT	0.064	mg/L	C	-	FILT	0.005	mg/L	C	UJ	FILT	0.045	mg/L	C	U
Lead	FILT	0.002	mg/L	C	UJ	FILT	0.050	mg/L	C	UJ	FILT	0.002	mg/L	C	UJ
Magnesium	FILT	48.600	mg/L	C	-	FILT	29.500	mg/L	C	J	FILT	31.300	mg/L	C	-
Manganese	FILT	0.007	mg/L	C	-	FILT	0.020	mg/L	C	UJ	FILT	0.008	mg/L	C	-
Mercury	FILT	0.000	mg/L	C	U	FILT	0.000	mg/L	C	UJ	FILT	0.000	mg/L	C	UJ
Molybdenum	FILT	0.020	mg/L	C	U	FILT	0.020	mg/L	C	UJ	FILT	0.020	mg/L	C	UJ
Nickel	FILT	0.024	mg/L	C	-	FILT	0.020	mg/L	C	UJ	FILT	0.020	mg/L	C	U
Potassium	FILT	1.000	mg/L	C	-	FILT	1.050	mg/L	C	J	FILT	0.891	mg/L	C	-
Selenium	FILT	0.005	mg/L	C	U	FILT	0.200	mg/L	C	UJ	FILT	0.002	mg/L	C	U
Silver	FILT	0.001	mg/L	C	U	FILT	0.040	mg/L	C	J	FILT	0.001	mg/L	C	U
Sodium	FILT	9.980	mg/L	C	-	FILT	5.710	mg/L	C	J	FILT	8.600	mg/L	C	-
<u>Volatile Organics</u>															
1,1,1-Trichloroethane	NA					UNFI	5.000	ug/L	D	UJ		NA			
1,1,2,2-Tetrachloroethane	NA					UNFI	5.000	ug/L	D	UJ		NA			
1,1,2-Trichloroethane	NA					UNFI	5.000	ug/L	D	UJ		NA			
1,1-Dichloroethane	NA					UNFI	5.000	ug/L	D	UJ		NA			
1,1-Dichloroethene	NA					UNFI	5.000	ug/L	D	UJ		NA			
1,2-Dichloroethane	NA					UNFI	5.000	ug/L	D	UJ		NA			
1,2-Dichloroethene	NA					UNFI	5.000	ug/L	D	UJ		NA			
1,2-Dichloropropane	NA					UNFI	5.000	ug/L	D	UJ		NA			
2-Butanone	NA					UNFI	10.000	ug/L	D	R		NA			
2-Hexanone	NA					UNFI	10.000	ug/L	D	UJ		NA			
4-Methyl-2-pentanone	NA					UNFI	10.000	ug/L	D	UJ		NA			
Acetone	NA					UNFI	10.000	ug/L	D	R		NA			
Benzene	NA					UNFI	5.000	ug/L	D	UJ		NA			
Bromodichloromethane	NA					UNFI	5.000	ug/L	D	UJ		NA			
Bromoform	NA					UNFI	5.000	ug/L	D	UJ		NA			
Bromomethane	NA					UNFI	10.000	ug/L	D	UJ		NA			
Carbon Tetrachloride	NA					UNFI	5.000	ug/L	D	UJ		NA			
Carbon disulfide	NA					UNFI	5.000	ug/L	D	UJ		NA			
Chlorobenzene	NA					UNFI	5.000	ug/L	D	UJ		NA			
Chloroethane	NA					UNFI	10.000	ug/L	D	UJ		NA			
Chloroform	NA					UNFI	5.000	ug/L	D	UJ		NA			
Chloromethane	NA					UNFI	10.000	ug/L	D	UJ		NA			

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000,278

TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1046	1065				1065									
SAMPLE NUMBER	003854	003136				003860									
SAMPLING DATE	01/22/89	04/14/88				01/22/89									
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ					
<u>Volatile Organics</u>															
Dibromochloromethane	NA		UNFI	5.000	ug/L	D	UJ		NA						
Ethylbenzene	NA		UNFI	5.000	ug/L	D	UJ		NA						
Methylene chloride	NA		UNFI	5.000	ug/L	D	UJ		NA						
Styrene	NA		UNFI	5.000	ug/L	D	UJ		NA						
Tetrachloroethene	NA		UNFI	5.000	ug/L	D	UJ		NA						
Toluene	NA		UNFI	5.000	ug/L	D	UJ		NA						
Trichloroethene	NA		UNFI	5.000	ug/L	D	UJ		NA						
Vinyl Acetate	NA		UNFI	10.000	ug/L	D	UJ		NA						
Vinyl chloride	NA		UNFI	10.000	ug/L	D	UJ		NA						
Xylenes, Total	NA		UNFI	5.000	ug/L	D	UJ		NA						
cis-1,3-Dichloropropene	NA		UNFI	5.000	ug/L	D	UJ		NA						
trans-1,3-Dichloropropene	NA		UNFI	5.000	ug/L	D	UJ		NA						
<u>General Chemistry</u>															
Ammonia	UNFI	0.100	mg/L	C	U	UNFI	0.100	mg/L	C	U					
Chloride	UNFI	1.500	mg/L	C	U	UNFI	0.500	mg/L	C	UJ					
Fluoride	UNFI	0.300	mg/L	C	-	UNFI	0.350	mg/L	C	-					
Nitrate	UNFI	0.060	mg/L	C	J	UNFI	0.100	mg/L	C	UJ					
Phenols	UNFI	0.010	mg/L	C	U	UNFI	0.020	mg/L	C	-					
Phosphorus	UNFI	0.400	mg/L	C	-	UNFI	0.050	mg/L	C	UJ					
Sulfate	UNFI	120.000	mg/L	C	-	UNFI	10.000	mg/L	C	J					
Total Kjeldahl Nitrogen	UNFI	0.200	mg/L	C	-	NA			UNFI	0.100	mg/L	C	U		
Total Organic Halides	UNFI	0.010	mg/L	C	U	NA			UNFI	0.010	mg/L	C	U		
Total Organic Nitrogen	UNFI	0.200	mg/L	C	-	UNFI	0.100	mg/L	C	-	UNFI	0.100	mg/L	C	U

TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1433	1433	1516			
SAMPLE NUMBER	047040	047044	046939			
SAMPLING DATE	11/16/92	11/30/92	07/17/90			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Inorganics</u>						
Aluminum	FILT	0.104 mg/L D U	U	NA	0.079 mg/L D U	NA
Aluminum		NA		NA	NA	NA
Antimony	FILT	0.005 mg/L D U	U	NA	0.005 mg/L D U	NA
Antimony		NA		NA	NA	NA
Arsenic	FILT	0.003 mg/L D U	U	NA	0.002 mg/L D U	NA
Arsenic		NA		NA	NA	NA
Barium	FILT	0.080 mg/L D -	U	NA	0.080 mg/L D -	NA
Barium		NA		NA	NA	NA
Beryllium	FILT	0.002 mg/L D U	U	NA	0.002 mg/L D U	NA
Beryllium		NA		NA	NA	NA
Cadmium	FILT	0.005 mg/L D U	U	NA	0.005 mg/L D U	NA
Cadmium		NA		NA	NA	NA
Calcium	FILT	129.000 mg/L D -	U	NA	127.000 mg/L D -	NA
Calcium		NA		NA	NA	NA
Chromium	FILT	0.010 mg/L D U	U	NA	0.010 mg/L D U	NA
Chromium		NA		NA	NA	NA
Cobalt	FILT	0.010 mg/L D U	U	NA	0.010 mg/L D U	NA
Cobalt		NA		NA	NA	NA
Copper	FILT	0.031 mg/L D -	U	NA	0.017 mg/L D -	NA
Copper		NA		NA	0.002 mg/L D U	NA
Cyanide	U	0.002 mg/L D U	U	NA	0.020 mg/L D U	NA
Iron	FILT	0.020 mg/L D U	U	NA	0.002 mg/L D UJ	NA
Iron		NA		NA	NA	NA
Lead	FILT	0.003 mg/L D U	U	NA	0.002 mg/L D U	NA
Lead		NA		NA	NA	NA
Magnesium	FILT	36.200 mg/L D -	U	NA	38.700 mg/L D -	NA
Magnesium		NA		NA	NA	NA
Manganese	FILT	0.111 mg/L D -	U	NA	0.050 mg/L D -	NA
Manganese		NA		NA	NA	NA
Mercury	FILT	0.000 mg/L D U	U	NA	0.000 mg/L D U	NA
Mercury		NA		NA	NA	NA
Molybdenum	FILT	0.020 mg/L D U	U	NA	0.020 mg/L D U	NA
Molybdenum		NA		NA	NA	NA
Nickel	FILT	0.020 mg/L D U	U	NA	0.020 mg/L D U	NA
Nickel		NA		NA	NA	NA
Potassium	FILT	2.840 mg/L D -	U	NA	2.510 mg/L D -	NA
Potassium		NA		NA	NA	NA
Selenium	FILT	0.002 mg/L D U	U	NA	0.002 mg/L D U	NA
Selenium		NA		NA	NA	NA
Silicon	FILT	10.500 mg/L D -	U	NA	10.200 mg/L D -	NA
Silicon		NA		NA	NA	NA
Silver	FILT	0.010 mg/L D U	U	NA	NA	NA

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0000780

TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1433 047040				1433 047044				1516 046939						
SAMPLING DATE	11/16/92				11/30/92				07/17/90						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>															
Silver		NA					U		0.010	mg/L	D	U			NA
Sodium	FILT	9.090	mg/L	D	-		U		NA						NA
Sodium		NA							9.460	mg/L	D	-			NA
Thallium	FILT	0.002	mg/L	D	U		U		NA						NA
Thallium		NA							0.002	mg/L	D	U			NA
Vanadium	FILT	0.010	mg/L	D	U		U		NA						NA
Vanadium		NA							0.010	mg/L	D	U			NA
Zinc	FILT	0.010	mg/L	D	-		U		NA						NA
Zinc		NA							0.008	mg/L	D	-			NA
<u>Volatile Organics</u>															
1,1,1-Trichloroethane	U	5.000	ug/L	D	U		U		NA						NA
1,1,2,2-Tetrachloroethane	U	5.000	ug/L	D	U		U		5.000	ug/L	D	U			NA
1,1,2-Trichloroethane	U	5.000	ug/L	D	U		U		5.000	ug/L	D	U			NA
1,1-Dichloroethane	U	5.000	ug/L	D	U		U		NA						NA
1,1-Dichloroethene	U	5.000	ug/L	D	U		U		NA						NA
1,2-Dichloroethane	U	5.000	ug/L	D	U		U		NA						NA
1,2-Dichloroethene	U	5.000	ug/L	D	U		U		NA						NA
1,2-Dichloropropane	U	5.000	ug/L	D	U		U		NA						NA
2-Butanone	U	10.000	ug/L	D	UJ		U		NA						NA
2-Hexanone	U	10.000	ug/L	D	UJ		U		10.000	ug/L	D	U			NA
4-Methyl-2-pentanone	U	10.000	ug/L	D	UJ		U		10.000	ug/L	D	U			NA
Acetone	U	10.000	ug/L	D	UJ		U		NA						NA
Benzene	U	5.000	ug/L	D	U		U		5.000	ug/L	D	U			NA
Bromodichloromethane	U	5.000	ug/L	D	U		U		NA						NA
Bromoform	U	5.000	ug/L	D	U		U		5.000	ug/L	D	U			NA
Bromomethane	U	10.000	ug/L	D	U		U		NA						NA
Carbon Tetrachloride	U	5.000	ug/L	D	U		U		NA						NA
Carbon disulfide	U	5.000	ug/L	D	U		U		NA						NA
Chlorobenzene	U	5.000	ug/L	D	U		U		5.000	ug/L	D	U			NA
Chloroethane	U	10.000	ug/L	D	U		U		NA						NA
Chloroform	U	5.000	ug/L	D	U		U		NA						NA
Chloromethane	U	10.000	ug/L	D	U		U		NA						NA
Dibromochloromethane	U	5.000	ug/L	D	U		U		5.000	ug/L	D	U			NA
Ethylbenzene	U	5.000	ug/L	D	U		U		5.000	ug/L	D	U			NA
Methylene chloride	U	5.000	ug/L	D	UJ		U		NA						NA
Styrene	U	5.000	ug/L	D	U		U		5.000	ug/L	D	U			NA
Tetrachloroethene	U	5.000	ug/L	D	U		U		5.000	ug/L	D	U			NA
Toluene	U	5.000	ug/L	D	U		U		5.000	ug/L	D	U			NA
Trichloroethene	U	5.000	ug/L	D	U		U		5.000	ug/L	D	U			NA
Vinyl Acetate	U	10.000	ug/L	D	UJ		U		NA						NA

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000781

TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1433				1433				1516			
SAMPLE NUMBER	047040				047044				046939			
SAMPLING DATE	11/16/92				11/30/92				07/17/90			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS
<u>Volatile Organics</u>												
Vinyl chloride	U	10.000	ug/L	D	U	U	NA					NA
Xylenes, Total	U	5.000	ug/L	D	U	U	5.000	ug/L	D	U		NA
cis-1,3-Dichloropropene	U	5.000	ug/L	D	U	U	NA					NA
trans-1,3-Dichloropropene	U	5.000	ug/L	D	U	U	5.000	ug/L	D	U		NA
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
1,2-Dichlorobenzene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
1,3-Dichlorobenzene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
1,4-Dichlorobenzene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
2,4,5-Trichlorophenol	U	50.000	ug/L	D	U	U	50.000	ug/L	D	U		NA
2,4,6-Trichlorophenol	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
2,4-Dichlorophenol	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
2,4-Dimethylphenol	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
2,4-Dinitrophenol	U	50.000	ug/L	D	U	U	50.000	ug/L	D	U		NA
2,4-Dinitrotoluene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
2,6-Dinitrotoluene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
2-Chloronaphthalene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
2-Chlorophenol	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
2-Methylnaphthalene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
2-Methylphenol	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
2-Nitroaniline	U	50.000	ug/L	D	U	U	50.000	ug/L	D	U		NA
2-Nitrophenol	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
3,3'-Dichlorobenzidine	U	20.000	ug/L	D	U	U	20.000	ug/L	D	U		NA
3-Nitroaniline	U	50.000	ug/L	D	U	U	50.000	ug/L	D	U		NA
4,6-Dinitro-2-methylphenol	U	50.000	ug/L	D	U	U	50.000	ug/L	D	U		NA
4-Bromophenyl phenyl ether	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
4-Chloro-3-methylphenol	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
4-Chlorophenylphenyl ether	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
4-Methylphenol	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
4-Nitroaniline	U	50.000	ug/L	D	U	U	50.000	ug/L	D	U		NA
4-Nitrophenol	U	50.000	ug/L	D	U	U	50.000	ug/L	D	U		NA
Acenaphthene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
Acenaphthylene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
Anthracene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
Benzo(a)anthracene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
Benzo(a)pyrene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
Benzo(b)fluoranthene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
Benzo(g,h,i)perylene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
Benzo(k)fluoranthene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA
Benzoic acid	U	50.000	ug/L	D	U	U	50.000	- ug/L	D	U		NA

TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1433 047040				1433 047044				1516 046939						
SAMPLING DATE	11/16/92				11/30/92				07/17/90						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>															
Benzyl alcohol	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
Butyl benzyl phthalate	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
Chrysene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
Di-n-butyl phthalate	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
Di-n-octyl phthalate	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
Dibenz(a,h)anthracene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
Dibenzofuran	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
Diethyl phthalate	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
Dimethyl phthalate	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
Fluoranthene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
Fluorene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
Hexachlorobenzene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
Hexachlorobutadiene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
Hexachlorocyclopentadiene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
Hexachloroethane	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
Indeno(1,2,3-cd)pyrene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
Isophorone	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
N-Nitroso-di-n-propylamine	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
N-Nitrosodiphenylamine	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
Naphthalene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
Nitrobenzene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
Pentachlorophenol	U	50.000	ug/L	D	U	U	50.000	ug/L	D	U		NA			
Phenanthrene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
Phenol	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
Pyrene	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
Tributyl phosphate	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
bis(2-Chloroethoxy)methane	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
bis(2-Chloroethyl)ether	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
bis(2-Chloroisopropyl) ether	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
bis(2-Ethylhexyl) phthalate	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
p-Chloroaniline	U	10.000	ug/L	D	U	U	10.000	ug/L	D	U		NA			
<u>Pesticide Organics/PCBs</u>															
4,4'-DDD	U	0.100	ug/L	D	U	U	0.100	ug/L	D	U		NA			
4,4'-DDE	U	0.100	ug/L	D	U	U	0.100	ug/L	D	U		NA			
4,4'-DDT	U	0.100	ug/L	D	U	U	0.100	ug/L	D	U		NA			
Aldrin	U	0.050	ug/L	D	U	U	0.050	ug/L	D	U		NA			
Aroclor-1016	U	0.500	ug/L	D	U	U	0.500	ug/L	D	U		NA			
Aroclor-1221	U	0.500	ug/L	D	U	U	0.500	ug/L	D	U		NA			
Aroclor-1232	U	0.500	ug/L	D	U	U	0.500	ug/L	D	U		NA			
Aroclor-1242	U	0.500	ug/L	D	U	U	0.500	ug/L	D	U		NA			

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TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1433 047040				1433 047044				1516 046939						
SAMPLE NUMBER															
SAMPLING DATE	11/16/92				11/30/92				07/17/90						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Pesticide Organics/PCBs</u>															
Aroclor-1248	D	0.500	ug/L	D	U	D	0.500	ug/L	D	U				NA	
Aroclor-1254	D	1.000	ug/L	D	U	D	1.000	ug/L	D	U				NA	
Aroclor-1260	D	1.000	ug/L	D	U	D	1.000	ug/L	D	U				NA	
Dieldrin	D	0.100	ug/L	D	U	D	0.100	ug/L	D	U				NA	
Endosulfan II	D	0.100	ug/L	D	U	D	0.100	ug/L	D	U				NA	
Endosulfan sulfate	D	0.100	ug/L	D	U	D	0.100	ug/L	D	U				NA	
Endosulfan-I	D	0.050	ug/L	D	U	D	0.050	ug/L	D	U				NA	
Endrin	D	0.100	ug/L	D	U	D	0.100	ug/L	D	U				NA	
Endrin ketone	D	0.100	ug/L	D	U	D	0.100	ug/L	D	U				NA	
Heptachlor	D	0.050	ug/L	D	U	D	0.050	ug/L	D	U				NA	
Heptachlor epoxide	D	0.050	ug/L	D	U	D	0.050	ug/L	D	U				NA	
Methoxychlor	D	0.500	ug/L	D	U	D	0.500	ug/L	D	U				NA	
Toxaphene	D	1.000	ug/L	D	U	D	1.000	ug/L	D	U				NA	
alpha-BHC	D	0.050	ug/L	D	U	D	0.050	ug/L	D	U				NA	
alpha-Chlordane	D	0.500	ug/L	D	U	D	0.500	ug/L	D	U				NA	
beta-BHC	D	0.050	ug/L	D	U	D	0.050	ug/L	D	U				NA	
delta-BHC	D	0.050	ug/L	D	U	D	0.050	ug/L	D	U				NA	
gamma-BHC (Lindane)	D	0.050	ug/L	D	U	D	0.050	ug/L	D	U				NA	
gamma-Chlordane	D	0.500	ug/L	D	U	D	0.500	ug/L	D	U				NA	
<u>General Chemistry</u>															
Ammonia	D	0.100	mg/L	C	U	D	0.126	mg/L	C	-				NA	
Chloride	D	5.150	mg/L	C	-	D	4.620	mg/L	C	-				NA	
Fluoride	D	1.280	mg/L	C	J	D	1.420	mg/L	C	-				NA	
Nitrate	NA					D	0.220	mg/L	C	-				NA	
Nitrate	NA					NA					UNFI	0.600	mg/L	C J	
Phenols	D	0.010	mg/L	C	U	D	0.010	mg/L	C	U				NA	
Phosphorus	D	0.340	mg/L	C	J	D	0.360	mg/L	C	U				NA	
Sulfate	D	61.200	mg/L	C	-	D	61.400	mg/L	C	U				NA	
Sulfide	D	0.500	mg/L	C	U	D	0.500	mg/L	C	U				NA	
Total Organic Carbon	D	4.400	mg/L	C	-	D	3.580	mg/L	C	U				NA	
Total Organic Halides	D	0.014	mg/L	C	-	D	10.000	mg/L	C	U				NA	
Total Organic Nitrogen	D	0.288	mg/L	C	-	D	0.143	mg/L	C	-				NA	

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TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1516				1517				1517						
SAMPLE NUMBER	046940				046945				046947						
SAMPLING DATE	08/21/90				07/17/90				08/21/90						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
Volatile Organics															
1,1,1-Trichloroethane		NA				UNFI	5.000	ug/L	D	U		NA			
1,1,2,2-Tetrachloroethane		NA				UNFI	5.000	ug/L	D	U		NA			
1,1,2-Trichloroethane		NA				UNFI	5.000	ug/L	D	U		NA			
1,1-Dichloroethane		NA				UNFI	9.000	ug/L	D	U		NA			
1,1-Dichloroethene		NA				UNFI	5.000	ug/L	D	U		NA			
1,2-Dichloroethane		NA				UNFI	5.000	ug/L	D	U		NA			
1,2-Dichloroethene		NA				UNFI	5.000	ug/L	D	U		NA			
1,2-Dichloropropane		NA				UNFI	5.000	ug/L	D	U		NA			
2-Butanone		NA				UNFI	10.000	ug/L	D	U		NA			
2-Hexanone		NA				UNFI	10.000	ug/L	D	U		NA			
4-Methyl-2-pentanone		NA				UNFI	10.000	ug/L	D	U		NA			
Acetone		NA				UNFI	5.000	ug/L	D	U		NA			
Benzene		NA				UNFI	5.000	ug/L	D	U		NA			
Bromodichloromethane		NA				UNFI	5.000	ug/L	D	U		NA			
Bromoform		NA				UNFI	5.000	ug/L	D	U		NA			
Bromomethane		NA				UNFI	10.000	ug/L	D	U		NA			
Carbon Tetrachloride		NA				UNFI	5.000	ug/L	D	U		NA			
Carbon disulfide		NA				UNFI	5.000	ug/L	D	U		NA			
Chlorobenzene		NA				UNFI	5.000	ug/L	D	U		NA			
Chloroethane		NA				UNFI	10.000	ug/L	D	U		NA			
Chloroform		NA				UNFI	5.000	ug/L	D	U		NA			
Chloromethane		NA				UNFI	10.000	ug/L	D	U		NA			
Dibromochloromethane		NA				UNFI	5.000	ug/L	D	U		NA			
Ethylbenzene		NA				UNFI	5.000	ug/L	D	U		NA			
Methylene chloride		NA				UNFI	5.000	ug/L	D	U		NA			
Styrene		NA				UNFI	5.000	ug/L	D	U		NA			
Tetrachloroethene		NA				UNFI	5.000	ug/L	D	U		NA			
Toluene		NA				UNFI	5.000	ug/L	D	U		NA			
Trichloroethene		NA				UNFI	7.000	ug/L	D	U		NA			
Vinyl Acetate		NA				UNFI	10.000	ug/L	D	U		NA			
Vinyl chloride		NA				UNFI	10.000	ug/L	D	U		NA			
Xylenes, Total		NA				UNFI	5.000	ug/L	D	U		NA			
cis-1,3-Dichloropropene		NA				UNFI	5.000	ug/L	D	U		NA			
trans-1,3-Dichloropropene		NA				UNFI	5.000	ug/L	D	U		NA			
Semivolatile Organics															
1,2,4-Trichlorobenzene		NA				UNFI	10.000	ug/L	D	U		NA			
1,2-Dichlorobenzene		NA				UNFI	10.000	ug/L	D	U		NA			
1,3-Dichlorobenzene		NA				UNFI	10.000	ug/L	D	U		NA			
1,4-Dichlorobenzene		NA				UNFI	10.000	ug/L	D	U		NA			
2,4,5-Trichlorophenol		NA				UNFI	50.000	ug/L	D	U		NA			

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TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1516	1517	1517				
SAMPLE NUMBER	046940	046945	046947				
SAMPLING DATE	08/21/90	07/17/90	08/21/90				
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	
<u>Semivolatile Organics</u>							
2,4,6-Trichlorophenol	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
2,4-Dichlorophenol	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
2,4-Dimethylphenol	NA	UNFI	10.000 ug/L D	UNFI	50.000 ug/L D	UNFI	10.000 ug/L D
2,4-Dinitrophenol	NA	UNFI	50.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
2,4-Dinitrotoluene	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
2,6-Dinitrotoluene	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
2-Chloronaphthalene	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
2-Chlorophenol	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
2-Methylnaphthalene	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
2-Methylphenol	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
2-Nitroaniline	NA	UNFI	50.000 ug/L D	UNFI	50.000 ug/L D	UNFI	50.000 ug/L D
2-Nitrophenol	NA	UNFI	10.000 ug/L D	UNFI	20.000 ug/L D	UNFI	10.000 ug/L D
3,3'-Dichlorobenzidine	NA	UNFI	20.000 ug/L D	UNFI	50.000 ug/L D	UNFI	50.000 ug/L D
3-Nitroaniline	NA	UNFI	50.000 ug/L D	UNFI	50.000 ug/L D	UNFI	50.000 ug/L D
4,6-Dinitro-2-methylphenol	NA	UNFI	50.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
4-Bromophenyl phenyl ether	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
4-Chloro-3-methylphenol	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
4-Chlorophenylphenyl ether	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
4-Methylphenol	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
4-Nitroaniline	NA	UNFI	50.000 ug/L D	UNFI	50.000 ug/L D	UNFI	50.000 ug/L D
4-Nitrophenol	NA	UNFI	50.000 ug/L D	UNFI	50.000 ug/L D	UNFI	50.000 ug/L D
Acenaphthene	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
Acenaphthylene	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
Anthracene	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
Benzo(a)anthracene	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
Benzo(a)pyrene	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
Benzo(b)fluoranthene	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
Benzo(g,h,i)perylene	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
Benzo(k)fluoranthene	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
Benzoic acid	NA	UNFI	50.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
Benzyl alcohol	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
Butyl benzyl phthalate	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
Chrysene	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
Di-n-butyl phthalate	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
Di-n-octyl phthalate	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
Dibenzo(a,h)anthracene	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
Dibenzofuran	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
Diethyl phthalate	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
Dimethyl phthalate	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
Fluoranthene	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
Fluorene	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D
Hexachlorobenzene	NA	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D	UNFI	10.000 ug/L D

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TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1516	1517	1517			
SAMPLE NUMBER	046940	046945	046947			
SAMPLING DATE	08/21/90	07/17/90	08/21/90			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>						
Hexachlorobutadiene	NA	UNFI	10.000 ug/L D U	NA		
Hexachlorocyclopentadiene	NA	UNFI	10.000 ug/L D U	NA		
Hexachloroethane	NA	UNFI	10.000 ug/L D U	NA		
Indeno(1,2,3-cd)pyrene	NA	UNFI	10.000 ug/L D U	NA		
Isophorone	NA	UNFI	10.000 ug/L D U	NA		
N-Nitroso-di-n-propylamine	NA	UNFI	10.000 ug/L D U	NA		
N-Nitrosodiphenylamine	NA	UNFI	10.000 ug/L D U	NA		
Naphthalene	NA	UNFI	10.000 ug/L D U	NA		
Nitrobenzene	NA	UNFI	10.000 ug/L D U	NA		
Pentachlorophenol	NA	UNFI	50.000 ug/L D U	NA		
Phenanthrene	NA	UNFI	10.000 ug/L D U	NA		
Phenol	NA	UNFI	10.000 ug/L D U	NA		
Pyrene	NA	UNFI	10.000 ug/L D U	NA		
bis(2-Chloroethoxy)methane	NA	UNKN	10.000 ug/L D U	NA		
bis(2-Chloroethyl)ether	NA	UNFI	10.000 ug/L D U	NA		
bis(2-Chloroisopropyl) ether	NA	UNFI	10.000 ug/L D U	NA		
bis(2-Ethylhexyl) phthalate	NA	UNFI	10.000 ug/L D U	NA		
p-Chloroaniline	NA	UNFI	10.000 ug/L D U	NA		
<u>General Chemistry</u>						
Nitrate	UNFI	0.260 mg/L C -	UNFI	2.470 mg/L C J	UNFI	1.780 mg/L C -

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TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1518 046963	1518 046964	2014 003064			
SAMPLING DATE	07/17/90	08/21/90	03/28/88			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Inorganics</u>						
Aluminum	NA	NA	FILT	0.755 mg/L C -		
Antimony	NA	NA	FILT	0.030 mg/L C U		
Arsenic	NA	NA	UNKN	0.002 mg/L C U		
Barium	NA	NA	UNKN	0.026 mg/L C -		
Beryllium	NA	NA	FILT	0.001 mg/L C U		
Cadmium	NA	NA	UNKN	0.005 mg/L C UJ		
Calcium	NA	NA	UNKN	81.500 mg/L C -		
Chromium	NA	NA	UNKN	0.010 mg/L C U		
Cobalt	NA	NA	FILT	0.020 mg/L C U		
Copper	NA	NA	UNKN	0.010 mg/L C U		
Cyanide	NA	NA	FILT	0.020 mg/L C NV		
Cyanide	NA	NA	UNFI	0.020 mg/L C U		
Iron	NA	NA	UNKN	1.600 mg/L C -		
Lead	NA	NA	UNKN	0.002 mg/L C U		
Magnesium	NA	NA	UNKN	20.000 mg/L C -		
Manganese	NA	NA	UNKN	0.002 mg/L C -		
Mercury	NA	NA	UNKN	0.001 mg/L C UJ		
Molybdenum	NA	NA	FILT	0.010 mg/L C UU		
Nickel	NA	NA	UNKN	0.020 mg/L C U		
Potassium	NA	NA	UNKN	2.000 mg/L C -		
Selenium	NA	NA	UNKN	0.010 mg/L C U		
Silver	NA	NA	UNKN	0.005 mg/L C U		
Sodium	NA	NA	UNKN	12.100 mg/L C U		
Thallium	NA	NA	FILT	0.004 mg/L C U		
Vanadium	NA	NA	FILT	0.010 mg/L C U		
Zinc	NA	NA	FILT	0.034 mg/L C -		
<u>Volatile Organics</u>						
1,1,1-Trichloroethane	NA	NA	UNFI	5.000 ug/L C U		
1,1,2,2-Tetrachloroethane	NA	NA	UNFI	5.000 ug/L C U		
1,1,2-Trichloroethane	NA	NA	UNFI	5.000 ug/L C U		
1,1-Dichloroethane	NA	NA	UNFI	5.000 ug/L C UU		
1,1-Dichloroethene	NA	NA	UNFI	5.000 ug/L C U		
1,2-Dichloroethane	NA	NA	UNFI	5.000 ug/L C U		
1,2-Dichloroethene	NA	NA	UNFI	5.000 ug/L C U		
1,2-Dichloropropane	NA	NA	UNFI	5.000 ug/L C U		
2-Butanone	NA	NA	UNFI	10.000 ug/L C U		
2-Hexanone	NA	NA	UNFI	10.000 ug/L C U		
4-Methyl-2-pentanone	NA	NA	UNFI	10.000 ug/L C U		
Acetone	NA	NA	UNFI	2.000 ug/L C J		
Benzene	NA	NA	UNFI	5.000 ug/L C U		

TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1518	1518	2014			
SAMPLE NUMBER	046963	046964	003064			
SAMPLING DATE	07/17/90	08/21/90	03/28/88			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Volatile Organics</u>						
Bromodichloromethane	NA	NA	UNFI	5.000 ug/L C U		
Bromoform	NA	NA	UNFI	5.000 ug/L C U		
Bromomethane	NA	NA	UNFI	10.000 ug/L C U		
Carbon Tetrachloride	NA	NA	UNFI	5.000 ug/L C U		
Carbon disulfide	NA	NA	UNFI	5.000 ug/L C U		
Chlorobenzene	NA	NA	UNFI	5.000 ug/L C U		
Chloroethane	NA	NA	UNFI	10.000 ug/L C U		
Chloroform	NA	NA	UNFI	5.000 ug/L C U		
Chloromethane	NA	NA	UNFI	10.000 ug/L C U		
Dibromochloromethane	NA	NA	UNFI	5.000 ug/L C U		
Ethylbenzene	NA	NA	UNFI	5.000 ug/L C U		
Methylene chloride	NA	NA	UNFI	5.000 ug/L C U		
Styrene	NA	NA	UNFI	5.000 ug/L C U		
Tetrachloroethene	NA	NA	UNFI	5.000 ug/L C U		
Toluene	NA	NA	UNFI	5.000 ug/L C U		
Trichloroethene	NA	NA	UNFI	5.000 ug/L C U		
Vinyl Acetate	NA	NA	UNFI	10.000 ug/L C U		
Vinyl chloride	NA	NA	UNFI	10.000 ug/L C U		
Xylenes, Total	NA	NA	UNFI	5.000 ug/L C U		
cis-1,3-Dichloropropene	NA	NA	UNFI	5.000 ug/L C U		
trans-1,3-Dichloropropene	NA	NA	UNFI	5.000 ug/L C U		
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	NA	NA	UNFI	10.000 ug/L C U		
1,2-Dichlorobenzene	NA	NA	UNFI	10.000 ug/L C U		
1,3-Dichlorobenzene	NA	NA	UNFI	10.000 ug/L C U		
1,4-Dichlorobenzene	NA	NA	UNFI	10.000 ug/L C U		
2,4,5-Trichlorophenol	NA	NA	UNFI	50.000 ug/L C U		
2,4,6-Trichlorophenol	NA	NA	UNFI	10.000 ug/L C U		
2,4-Dichlorophenol	NA	NA	UNFI	10.000 ug/L C U		
2,4-Dimethylphenol	NA	NA	UNFI	10.000 ug/L C U		
2,4-Dinitrophenol	NA	NA	UNFI	50.000 ug/L C U		
2,4-Dinitrotoluene	NA	NA	UNFI	10.000 ug/L C U		
2,6-Dinitrotoluene	NA	NA	UNFI	10.000 ug/L C U		
2-Chloronaphthalene	NA	NA	UNFI	10.000 ug/L C U		
2-Chlorophenol	NA	NA	UNFI	10.000 ug/L C U		
2-Methylnaphthalene	NA	NA	UNFI	10.000 ug/L C U		
2-Methylphenol	NA	NA	UNFI	10.000 ug/L C U		
2-Nitroaniline	NA	NA	UNFI	50.000 ug/L C U		
2-Nitrophenol	NA	NA	UNFI	10.000 ug/L C U		
3,3'-Dichlorobenzidine	NA	NA	UNFI	20.000 ug/L C U		

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TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1518	1518	2014			
SAMPLE NUMBER	046963	046964	003064			
SAMPLING DATE	07/17/90	08/21/90	03/28/88			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>						
3-Nitroaniline	NA	NA	UNFI	50.000 ug/L C U		
4,6-Dinitro-2-methylphenol	NA	NA	UNFI	50.000 ug/L C U		
4-Bromophenyl phenyl ether	NA	NA	UNFI	10.000 ug/L C U		
4-Chloro-3-methylphenol	NA	NA	UNFI	10.000 ug/L C U		
4-Chlorophenylphenyl ether	NA	NA	UNFI	10.000 ug/L C U		
4-Methylphenol	NA	NA	UNFI	10.000 ug/L C U		
4-Nitroaniline	NA	NA	UNFI	50.000 ug/L C U		
4-Nitrophenol	NA	NA	UNFI	50.000 ug/L C U		
Acenaphthene	NA	NA	UNFI	10.000 ug/L C U		
Acenaphthylene	NA	NA	UNFI	10.000 ug/L C U		
Anthracene	NA	NA	UNFI	10.000 ug/L C U		
Benzo(a)anthracene	NA	NA	UNFI	10.000 ug/L C U		
Benzo(a)pyrene	NA	NA	UNFI	10.000 ug/L C U		
Benzo(b)fluoranthene	NA	NA	UNFI	10.000 ug/L C U		
Benzo(g,h,i)perylene	NA	NA	UNFI	10.000 ug/L C U		
Benzo(k)fluoranthene	NA	NA	UNFI	10.000 ug/L C U		
Benzoic acid	NA	NA	UNFI	50.000 ug/L C U		
Benzyl alcohol	NA	NA	UNFI	10.000 ug/L C U		
Butyl benzyl phthalate	NA	NA	UNFI	10.000 ug/L C U		
Chrysene	NA	NA	UNFI	10.000 ug/L C U		
Di-n-butyl phthalate	NA	NA	UNFI	10.000 ug/L C U		
Di-n-octyl phthalate	NA	NA	UNFI	10.000 ug/L C U		
Dibenzo(a,h)anthracene	NA	NA	UNFI	10.000 ug/L C U		
Dibenzofuran	NA	NA	UNFI	10.000 ug/L C U		
Diethyl phthalate	NA	NA	UNFI	10.000 ug/L C U		
Dimethyl phthalate	NA	NA	UNFI	10.000 ug/L C U		
Fluoranthene	NA	NA	UNFI	10.000 ug/L C U		
Fluorene	NA	NA	UNFI	10.000 ug/L C U		
Hexachlorobenzene	NA	NA	UNFI	10.000 ug/L C U		
Hexachlorobutadiene	NA	NA	UNFI	10.000 ug/L C U		
Hexachlorocyclopentadiene	NA	NA	UNFI	10.000 ug/L C U		
Hexachloroethane	NA	NA	UNFI	10.000 ug/L C U		
Indeno(1,2,3-cd)pyrene	NA	NA	UNFI	10.000 ug/L C U		
Isophorone	NA	NA	UNFI	10.000 ug/L C U		
N-Nitroso-di-n-propylamine	NA	NA	UNFI	10.000 ug/L C U		
N-Nitrosodiphenylamine	NA	NA	UNFI	10.000 ug/L C U		
Naphthalene	NA	NA	UNFI	10.000 ug/L C U		
Nitrobenzene	NA	NA	UNFI	10.000 ug/L C U		
Pentachloropheno	NA	NA	UNFI	50.000 ug/L C U		
Phenanthrene	NA	NA	UNFI	10.000 ug/L C U		
Phenol	NA	NA	UNFI	10.000 ug/L C U		
Pyrene	NA	NA	UNFI	10.000 ug/L C U		

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(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1518	1518	2014					
SAMPLE NUMBER	046963	046964	003064					
SAMPLING DATE	07/17/90	08/21/90	03/28/88					
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ		
<u>Semivolatile Organics</u>								
bis(2-Chloroethoxy)methane	NA		NA		UNFI	10.000	ug/L	C U
bis(2-Chloroethyl)ether	NA		NA		UNFI	10.000	ug/L	C U
bis(2-Chloroisopropyl) ether	NA		NA		UNFI	10.000	ug/L	C U
bis(2-Ethylhexyl) phthalate	NA		NA		UNFI	2.000	ug/L	C U
p-Chloroaniline	NA		NA		UNFI	10.000	ug/L	C U
<u>Pesticide Organics/PCBs</u>								
4,4'-DDD	NA		NA		UNFI	0.100	ug/L	C U
4,4'-DDE	NA		NA		UNFI	0.100	ug/L	C U
4,4'-DDT	NA		NA		UNFI	0.100	ug/L	C U
Aldrin	NA		NA		UNFI	0.050	ug/L	C U
Aroclor-1016	NA		NA		UNFI	0.500	ug/L	C U
Aroclor-1221	NA		NA		UNFI	0.500	ug/L	C U
Aroclor-1232	NA		NA		UNFI	0.500	ug/L	C U
Aroclor-1242	NA		NA		UNFI	0.500	ug/L	C U
Aroclor-1248	NA		NA		UNFI	0.500	ug/L	C U
Aroclor-1254	NA		NA		UNFI	1.000	ug/L	C U
Aroclor-1260	NA		NA		UNFI	1.000	ug/L	C U
Dieldrin	NA		NA		UNFI	0.100	ug/L	C U
Endosulfan II	NA		NA		UNFI	0.100	ug/L	C U
Endosulfan sulfate	NA		NA		UNFI	0.100	ug/L	C U
Endosulfan-I	NA		NA		UNFI	0.050	ug/L	C U
Endrin	NA		NA		UNFI	0.100	ug/L	C U
Endrin ketone	NA		NA		UNKN	0.100	ug/L	C U
Heptachlor	NA		NA		UNFI	0.050	ug/L	C U
Heptachlor epoxide	NA		NA		UNFI	0.050	ug/L	C U
Methoxychlor	NA		NA		UNFI	0.500	ug/L	C U
Toxaphene	NA		NA		UNFI	1.000	ug/L	C U
alpha-BHC	NA		NA		UNFI	0.050	ug/L	C U
alpha-Chlordane	NA		NA		UNFI	0.500	ug/L	C U
beta-BHC	NA		NA		UNFI	0.050	ug/L	C U
delta-BHC	NA		NA		UNFI	0.050	ug/L	C U
gamma-BHC (Lindane)	NA		NA		UNFI	0.050	ug/L	C U
gamma-Chlordane	NA		NA		UNFI	0.500	ug/L	C U
<u>General Chemistry</u>								
Ammonia	NA		NA		UNFI	0.100	mg/L	C U
Chloride	NA		NA		UNFI	27.000	mg/L	C U
Fluoride	NA		NA		UNFI	0.500	mg/L	C U
Hexavalent Chromium	NA		NA		UNFI	0.020	mg/L	C U

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TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1518	1518	2014			
SAMPLE NUMBER	046963	046964	003064			
SAMPLING DATE	07/17/90	08/21/90	03/28/88			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>General Chemistry</u>						
Nitrate	UNFI	0.890 mg/L C J	UNFI	0.990 mg/L C -	UNFI	5.000 mg/L C U
Phenols	NA		NA		UNFI	0.010 mg/L C U
Phosphate	NA		NA		UNFI	0.300 mg/L C -
Specific conductivity	NA		NA		UNFI	622.000 umhos C -
Sulfate	NA		NA		UNFI	64.000 mg/L C -
Total Organic Nitrogen	NA		NA		UNFI	0.300 mg/L C U
pH	NA		NA		UNFI	7.740 stand C -

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TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2014 003384				2014 003673				2014 003869						
SAMPLING DATE	07/28/88				11/06/88				01/31/89						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>															
Arsenic	FILT	0.010	mg/L	C	UJ	FILT	0.002	mg/L	C	UJ	FILT	0.002	mg/L	C	U
Barium	FILT	0.200	mg/L	C	U	FILT	0.020	mg/L	C	-	FILT	0.036	mg/L	C	-
Cadmium	FILT	0.005	mg/L	C	U	FILT	0.006	mg/L	C	-	FILT	0.002	mg/L	C	U
Calcium	FILT	84.000	mg/L	C	J	FILT	96.500	mg/L	C	-	FILT	90.000	mg/L	C	-
Chromium	FILT	0.010	mg/L	C	U	FILT	0.020	mg/L	C	U	FILT	0.025	mg/L	C	-
Copper	FILT	0.025	mg/L	C	U	FILT	0.010	mg/L	C	U	FILT	0.018	mg/L	C	-
Iron	FILT	0.100	mg/L	C	U	FILT	0.300	mg/L	C	-	FILT	0.077	mg/L	C	U
Lead	FILT	0.200	mg/L	C	U	FILT	0.033	mg/L	C	R	FILT	0.002	mg/L	C	U
Magnesium	FILT	21.000	mg/L	C	-	FILT	21.000	mg/L	C	-	FILT	23.600	mg/L	C	-
Manganese	FILT	0.015	mg/L	C	U	FILT	0.005	mg/L	C	-	FILT	0.013	mg/L	C	-
Mercury	FILT	0.001	mg/L	C	U	FILT	0.000	mg/L	C	U	FILT	0.000	mg/L	C	-
Molybdenum	FILT	0.050	mg/L	C	U	FILT	0.020	mg/L	C	U	FILT	0.020	mg/L	C	U
Nickel	FILT	0.040	mg/L	C	U	FILT	0.020	mg/L	C	U	FILT	0.020	mg/L	C	U
Potassium	FILT	5.000	mg/L	C	U	FILT	2.440	mg/L	C	-	FILT	2.400	mg/L	C	-
Selenium	FILT	0.005	mg/L	C	U	FILT	0.002	mg/L	C	UJ	FILT	0.003	mg/L	C	-
Silver	FILT	0.010	mg/L	C	UJ	FILT	0.010	mg/L	C	U	FILT	0.001	mg/L	C	U
Sodium	FILT	14.000	mg/L	C	-	FILT	11.100	mg/L	C	-	FILT	13.100	mg/L	C	-
<u>General Chemistry</u>															
Ammonia	UNFI	0.100	mg/L	C	UJ	UNFI	0.100	mg/L	C	UJ	UNFI	0.145	mg/L	C	-
Chloride	UNFI	24.000	mg/L	C	J	UNFI	21.000	mg/L	C	-	NA	29.000	mg/L	C	-
Chloride	NA					NA					UNKN	0.098	mg/L	C	-
Fluoride	UNFI	0.900	mg/L	C	R	UNFI	0.100	mg/L	C	R	UNFI	3.590	mg/L	C	-
Nitrate	UNFI	1.800	mg/L	C	J	UNFI	0.505	mg/L	C	J	UNFI	0.030	mg/L	C	-
Phenols	UNFI	0.050	mg/L	C	U	UNFI	0.010	mg/L	C	U	UNFI	59.200	mg/L	C	-
Phosphorus	UNFI	0.450	mg/L	C	R	UNFI	0.088	mg/L	C	-	UNFI	0.762	mg/L	C	-
Sulfate	UNFI	69.000	mg/L	C	R	UNFI	60.800	mg/L	C	-	UNFI	0.174	mg/L	C	R
Total Kjeldahl Nitrogen	NA					UNFI	1.070	mg/L	C	J	UNFI	0.617	mg/L	C	-
Total Organic Halides	NA					UNFI	1.700	mg/L	C	-	UNFI				
Total Organic Nitrogen	UNFI	0.100	mg/L	C	UJ	UNFI	1.070	mg/L	C	J	UNFI				

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PHASE I - CHEMICAL PARAMETERS

**TABLE F-11A
(Continued)**

BORING NUMBER	2014 004028			2014 004151			2014 004211								
SAMPLING DATE	01/31/89			07/26/89			04/01/90								
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>															
Aluminum		NA				FILT	0.243	mg/L	C	U	FILT	0.164	mg/L	C	U
Arsenic		NA				FILT	0.002	mg/L	C	U	FILT	0.002	mg/L	C	U
Barium		NA				FILT	0.046	mg/L	C	-	FILT	0.041	mg/L	C	-
Cadmium		NA				FILT	0.004	mg/L	C	-	FILT	0.005	mg/L	C	-
Calcium		NA				FILT	96.500	mg/L	C	-	FILT	88.300	mg/L	C	-
Chromium		NA				FILT	0.032	mg/L	C	U	FILT	0.030	mg/L	C	U
Copper		NA				FILT	0.010	mg/L	C	U	FILT	0.010	mg/L	C	U
Iron		NA				FILT	0.436	mg/L	C	U	FILT	0.136	mg/L	C	U
Lead		NA				FILT	0.006	mg/L	C	-	FILT	0.005	mg/L	C	-
Magnesium		NA				FILT	22.600	mg/L	C	-	FILT	21.800	mg/L	C	-
Manganese		NA				FILT	0.380	mg/L	C	-	FILT	0.019	mg/L	C	-
Mercury		NA				FILT	0.000	mg/L	C	-	FILT	0.000	mg/L	C	U
Molybdenum		NA				FILT	0.010	mg/L	C	U	FILT	0.049	mg/L	C	U
Nickel		NA				FILT	0.084	mg/L	C	U	FILT	0.020	mg/L	C	U
Potassium		NA				FILT	2.170	mg/L	C	-	FILT	3.580	mg/L	C	R
Selenium		NA				FILT	0.002	mg/L	C	-	FILT	0.002	mg/L	C	-
Silicon		NA				FILT	3.820	mg/L	C	U	FILT	3.120	mg/L	C	U
Silver		NA				FILT	0.010	mg/L	C	U	FILT	0.010	mg/L	C	U
Sodium		NA				FILT	11.400	mg/L	C	-	FILT	12.200	mg/L	C	-
Vanadium		NA				FILT	0.014	mg/L	C	-	FILT	0.016	mg/L	C	-
<u>Semivolatile Organics</u>															
Methyl parathion	UNFI	0.250	ug/L	C	U		NA					NA			
Parathion	UNFI	0.250	ug/L	C	U		NA					NA			
<u>Pesticide Organics/PCBs</u>															
Azinphosmethyl	UNFI	2.500	ug/L	C	U		NA					NA			
Demeton	UNFI	0.250	ug/L	C	U		NA					NA			
Diazinon	UNFI	0.250	ug/L	C	U		NA					NA			
Disulfoton	UNFI	0.250	ug/L	C	U		NA					NA			
Ethion	UNFI	0.250	ug/L	C	U		NA					NA			
Malathion	UNFI	0.250	ug/L	C	U		NA					NA			
<u>General Chemistry</u>															
Ammonia		NA				UNFI	0.100	mg/L	C	U	UNFI	0.100	mg/L	C	U
Chloride		NA				UNFI	22.500	mg/L	C	-	UNFI	12.200	mg/L	C	-
Fluoride		NA				UNFI	0.320	mg/L	C	-	UNFI	0.280	mg/L	C	-
Nitrate		NA				UNFI	1.720	mg/L	C	U	UNFI	1.820	mg/L	C	U
Phenols		NA				UNFI	0.010	mg/L	C	U	UNFI	0.012	mg/L	C	-

TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2014 004028	2014 004151	2014 004211				
SAMPLING DATE	01/31/89	07/26/89	04/01/90				
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	
<u>General Chemistry</u>							
Phosphorus	NA	UNFI	0.196	mg/L C -	UNFI	0.350	mg/L C -
Sulfate	NA	UNFI	49.300	mg/L C -	UNFI	71.600	mg/L C -
Sulfide	NA	UNFI	3.520	mg/L C -	UNFI	0.500	mg/L C U
Total Kjeldahl Nitrogen	NA	UNFI	0.100	mg/L C -	NA		
Total Organic Carbon	NA	UNFI	3.720	mg/L C -	UNFI	4.070	mg/L C J
Total Organic Halides	NA	UNFI	0.060	mg/L C -	UNFI	0.973	mg/L C R
Total Organic Nitrogen	NA	UNFI	0.459	mg/L C -	UNFI	0.120	mg/L C -

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TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	2046	2046				2046			
SAMPLE NUMBER	003997	004097				004159			
SAMPLING DATE	02/02/89	05/10/89				07/28/89			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L
<u>Inorganics</u>									
Aluminum		NA				FILT	0.072	mg/L	C -
Arsenic	FILT	0.002	mg/L	C	U	FILT	0.002	mg/L	C UJ
Barium	FILT	0.067	mg/L	C	-	FILT	0.089	mg/L	C -
Cadmium	FILT	0.006	mg/L	C	-	FILT	0.002	mg/L	C -
Calcium	FILT	112.000	mg/L	C	-	FILT	143.000	mg/L	C -
Chromium	FILT	0.023	mg/L	C	-	FILT	0.010	mg/L	C -
Copper	FILT	0.021	mg/L	C	-	FILT	0.010	mg/L	C U
Iron	FILT	0.117	mg/L	C	-	FILT	0.056	mg/L	C -
Lead	FILT	0.006	mg/L	C	-	FILT	0.004	mg/L	C -
Magnesium	FILT	31.700	mg/L	C	-	FILT	38.700	mg/L	C -
Manganese	FILT	0.017	mg/L	C	-	FILT	0.002	mg/L	C -
Mercury	FILT	0.000	mg/L	C	UJ	FILT	0.000	mg/L	C -
Molybdenum	FILT	0.020	mg/L	C	UJ	FILT	0.100	mg/L	C -
Nickel	FILT	0.020	mg/L	C	-	FILT	0.020	mg/L	C U
Potassium	FILT	2.860	mg/L	C	-	FILT	3.230	mg/L	C -
Selenium	FILT	0.003	mg/L	C	-	FILT	0.002	mg/L	C U
Silicon		NA				FILT	5.590	mg/L	C -
Silver	FILT	0.001	mg/L	C	U	FILT	0.010	mg/L	C -
Sodium	FILT	10.200	mg/L	C	-	FILT	10.300	mg/L	C -
Vanadium		NA				FILT	0.010	mg/L	C U
<u>General Chemistry</u>									
Ammonia	UNFI	0.100	mg/L	C	UJ	UNFI	0.100	mg/L	C U
Chloride	UNFI	3.000	mg/L	C	J	UNFI	18.000	mg/L	C -
Fluoride	UNFI	0.150	mg/L	C	J	UNFI	0.115	mg/L	C -
Nitrate	UNFI	1.350	mg/L	C	R	UNFI	1.470	mg/L	C J
Phenols	UNFI	0.010	mg/L	C	-	UNFI	0.015	mg/L	C -
Phosphorus	UNFI	0.390	mg/L	C	-	UNFI	0.801	mg/L	C -
Sulfate	UNFI	73.500	mg/L	C	J	UNFI	84.300	mg/L	C -
Sulfide		NA				UNFI	30.100	mg/L	C -
Total Kjeldahl Nitrogen	UNFI	0.275	mg/L	C	J	UNFI	0.377	mg/L	C -
Total Organic Carbon		NA				UNFI	1.000	mg/L	C -
Total Organic Halides	UNFI	0.010	mg/L	C	U	NA			
Total Organic Halides		NA				UNFI	0.021	mg/L	C -
Total Organic Nitrogen	UNFI	0.275	mg/L	C	J	UNFI	0.377	mg/L	C -

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TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	2046	2048				2048			
SAMPLE NUMBER	004219	003994				004100			
SAMPLING DATE	04/03/90	02/09/89				05/02/89			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L
<u>Inorganics</u>									
Aluminum	FILT	0.185	mg/L	C	-	FILT	NA	mg/L	C
Arsenic	FILT	0.002	mg/L	C	UJ	FILT	0.002	mg/L	C
Barium	FILT	0.069	mg/L	C	-	FILT	0.042	mg/L	C
Cadmium	FILT	0.007	mg/L	C	-	FILT	0.008	mg/L	C
Calcium	FILT	120.000	mg/L	C	-	FILT	97.000	mg/L	C
Chromium	FILT	0.041	mg/L	C	-	FILT	0.031	mg/L	C
Copper	FILT	0.010	mg/L	C	U	FILT	0.017	mg/L	C
Iron	FILT	0.096	mg/L	C	U	FILT	0.115	mg/L	C
Lead	FILT	0.003	mg/L	C	U	FILT	0.002	mg/L	C
Magnesium	FILT	34.300	mg/L	C	-	FILT	24.600	mg/L	C
Manganese	FILT	0.010	mg/L	C	-	FILT	0.013	mg/L	C
Mercury	FILT	0.000	mg/L	C	UJ	FILT	0.000	mg/L	C
Molybdenum	FILT	0.010	mg/L	C	UJ	FILT	0.008	mg/L	C
Nickel	FILT	0.020	mg/L	C	U	FILT	0.020	mg/L	C
Potassium	FILT	3.510	mg/L	C	J	FILT	2.030	mg/L	C
Selenium	FILT	0.002	mg/L	C	U	FILT	0.002	mg/L	C
Silicon	FILT	4.910	mg/L	C	-	NA	NA	mg/L	C
Silver	FILT	0.015	mg/L	C	-	FILT	0.001	mg/L	C
Sodium	FILT	11.000	mg/L	C	-	FILT	8.030	mg/L	C
Vanadium	FILT	0.024	mg/L	C	-	NA	NA	mg/L	C
<u>General Chemistry</u>									
Ammonia	UNFI	0.100	mg/L	C	U	UNFI	0.100	mg/L	C
Chloride	UNFI	8.890	mg/L	C	-	UNFI	1.000	mg/L	C
Fluoride	UNFI	0.180	mg/L	C	-	UNFI	0.120	mg/L	C
Nitrate	UNFI	1.600	mg/L	C	R	UNFI	1.830	mg/L	C
Phenols	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C
Phosphorus	UNFI	0.080	mg/L	C	-	UNFI	0.960	mg/L	C
Sulfate	UNFI	86.400	mg/L	C	-	UNFI	59.000	mg/L	C
Sulfide	UNFI	0.500	mg/L	C	U	NA	NA	mg/L	C
Total Kjeldahl Nitrogen	NA	NA	mg/L	C	-	UNFI	0.441	mg/L	C
Total Organic Carbon	UNFI	0.234	mg/L	C	U	NA	NA	mg/L	C
Total Organic Halides	UNFI	0.032	mg/L	C	R	UNFI	0.010	mg/L	C
Total Organic Nitrogen	UNFI	0.100	mg/L	C	U	UNFI	0.441	mg/L	C

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TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	2065 003095				2065 003438				2065 003544			
SAMPLING DATE	04/19/88				08/04/88				02/02/89			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Inorganics</u>												
Aluminum	FILT	0.050	mg/L	D U		NA				NA		
Antimony	FILT	0.001	mg/L	D U		NA				NA		
Arsenic		NA			*F	0.010	mg/L	C U		NA		
Arsenic	FILT	0.002	mg/L	D U		NA				NA		
Barium		NA			*F	0.200	mg/L	C U		NA		
Barium	FILT	0.044	mg/L	D R		NA				NA		
Beryllium	FILT	0.001	mg/L	D U		NA				NA		
Cadmium		NA			*F	0.005	mg/L	C U		NA		
Cadmium	FILT	0.002	mg/L	D U		NA				NA		
Calcium		NA			*F	160.000	mg/L	C -		NA		
Calcium	FILT	135.000	mg/L	D -		NA				NA		
Chromium		NA			*F	0.010	mg/L	C U		NA		
Chromium	FILT	0.020	mg/L	D R		NA				NA		
Cobalt	FILT	0.010	mg/L	D U		NA				NA		
Copper		NA			*F	0.030	mg/L	C U		NA		
Copper	FILT	0.010	mg/L	D R		NA				NA		
Cyanide	UNKN	0.010	mg/L	D U		NA				NA		
Iron		NA			*F	0.600	mg/L	C -		NA		
Iron	FILT	0.090	mg/L	D U		NA				NA		
Lead		NA			*F	0.005	mg/L	C U		NA		
Lead	FILT	0.002	mg/L	D UJ		NA				NA		
Magnesium		NA			*F	46.000	mg/L	C -		NA		
Magnesium	FILT	42.800	mg/L	D -		NA				NA		
Manganese		NA			*F	0.510	mg/L	C -		NA		
Manganese	FILT	0.362	mg/L	D -		NA				NA		
Mercury		NA			*F	0.000	mg/L	C U		NA		
Mercury	FILT	0.000	mg/L	D UJ		NA				NA		
Molybdenum		NA			*F	0.050	mg/L	C U		NA		
Molybdenum	FILT	0.020	mg/L	D UJ		NA				NA		
Nickel		NA			*F	0.040	mg/L	C U		NA		
Nickel	FILT	0.020	mg/L	D U		NA				NA		
Potassium		NA			*F	5.000	mg/L	C U		NA		
Potassium	FILT	4.070	mg/L	D -		NA				NA		
Selenium		NA			*F	0.005	mg/L	C U		NA		
Selenium	FILT	0.002	mg/L	D UJ		NA				NA		
Silver		NA			*F	0.010	mg/L	C U		NA		
Silver	FILT	0.005	mg/L	D UJ		NA				NA		
Sodium		NA			*F	13.000	mg/L	C -		NA		
Sodium	FILT	13.800	mg/L	D -		NA				NA		
Thallium	FILT	0.001	mg/L	D UJ		NA				NA		
Vanadium	FILT	0.017	mg/L	D U		NA				NA		
Zinc	FILT	0.010	mg/L	D U		NA				NA		

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TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	2065	2065	2065			
SAMPLE NUMBER	003095	003438	003544			
SAMPLING DATE	04/19/88	08/04/88	02/02/89			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Volatile Organics</u>						
1,1,1-Trichloroethane	UNFI	5.000 ug/L D U		NA		NA
1,1,2,2-Tetrachloroethane	UNFI	5.000 ug/L D U		NA		NA
1,1,2-Trichloroethane	UNFI	5.000 ug/L D U		NA		NA
1,1-Dichloroethane	UNFI	5.000 ug/L D U		NA		NA
1,1-Dichloroethene	UNFI	5.000 ug/L D U		NA		NA
1,2-Dichloroethane	UNFI	5.000 ug/L D U		NA		NA
1,2-Dichloroethene	UNFI	5.000 ug/L D U		NA		NA
1,2-Dichloropropane	UNFI	5.000 ug/L D U		NA		NA
2-Butanone	UNFI	10.000 ug/L D R		NA		NA
2-Hexanone	UNFI	10.000 ug/L D UJ		NA		NA
4-Methyl-2-pentanone	UNFI	10.000 ug/L D UJ		NA		NA
Acetone	UNFI	5.000 ug/L D U		NA		NA
Benzene	UNFI	5.000 ug/L D UJ		NA		NA
Bromodichloromethane	UNFI	5.000 ug/L D U		NA		NA
Bromoform	UNFI	5.000 ug/L D U		NA		NA
Bromomethane	UNFI	10.000 ug/L D U		NA		NA
Carbon Tetrachloride	UNFI	5.000 ug/L D U		NA		NA
Carbon disulfide	UNFI	5.000 ug/L D U		NA		NA
Chlorobenzene	UNFI	5.000 ug/L D UJ		NA		NA
Chloroethane	UNFI	10.000 ug/L D UJ		NA		NA
Chloroform	UNFI	5.000 ug/L D U		NA		NA
Chloromethane	UNFI	10.000 ug/L D U		NA		NA
Dibromochloromethane	UNFI	5.000 ug/L D U		NA		NA
Ethylbenzene	UNFI	5.000 ug/L D UJ		NA		NA
Methylene chloride	UNFI	5.000 ug/L D U		NA		NA
Styrene	UNFI	5.000 ug/L D UJ		NA		NA
Tetrachloroethene	UNFI	5.000 ug/L D U		NA		NA
Toluene	UNFI	5.000 ug/L D UJ		NA		NA
Trichloroethene	UNFI	5.000 ug/L D U		NA		NA
Vinyl Acetate	UNFI	10.000 ug/L D U		NA		NA
Vinyl chloride	UNFI	10.000 ug/L D U		NA		NA
Xylenes, Total	UNFI	5.000 ug/L D UJ		NA		NA
cis-1,3-Dichloropropene	UNFI	5.000 ug/L D U		NA		NA
trans-1,3-Dichloropropene	UNFI	5.000 ug/L D U		NA		NA
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	UNFI	10.000 ug/L D U		NA		NA
1,2-Dichlorobenzene	UNFI	10.000 ug/L D U		NA		NA
1,3-Dichlorobenzene	UNFI	10.000 ug/L D U		NA		NA
1,4-Dichlorobenzene	UNFI	10.000 ug/L D U		NA		NA
2,4,5-Trichlorophenol	UNFI	50.000 ug/L D U		NA		NA

TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	2065	2065	2065			
SAMPLE NUMBER	003095	003438	003544			
SAMPLING DATE	04/19/88	08/04/88	02/02/89			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>						
2,4,6-Trichlorophenol	UNFI	10.000 ug/L D U		NA		NA
2,4-Dichlorophenol	UNFI	10.000 ug/L D U		NA		NA
2,4-Dimethylphenol	UNFI	10.000 ug/L D U		NA		NA
2,4-Dinitrophenol	UNFI	50.000 ug/L D UJ		NA		NA
2,4-Dinitrotoluene	UNFI	10.000 ug/L D U		NA		NA
2,6-Dinitrotoluene	UNFI	10.000 ug/L D U		NA		NA
2-Chloronaphthalene	UNFI	10.000 ug/L D U		NA		NA
2-Chlorophenol	UNFI	10.000 ug/L D U		NA		NA
2-Methylnaphthalene	UNFI	10.000 ug/L D U		NA		NA
2-Methylphenol	UNFI	10.000 ug/L D U		NA		NA
2-Nitroaniline	UNFI	50.000 ug/L D U		NA		NA
2-Nitrophenol	UNFI	10.000 ug/L D U		NA		NA
3,3'-Dichlorobenzidine	UNFI	20.000 ug/L D U		NA		NA
3-Nitroaniline	UNFI	50.000 ug/L D UJ		NA		NA
4,6-Dinitro-2-methylphenol	UNFI	50.000 ug/L D U		NA		NA
4-Bromophenyl phenyl ether	UNFI	10.000 ug/L D U		NA		NA
4-Chloro-3-methylphenol	UNFI	10.000 ug/L D U		NA		NA
4-Chlorophenylphenyl ether	UNFI	10.000 ug/L D U		NA		NA
4-Methylphenol	UNFI	10.000 ug/L D U		NA		NA
4-Nitroaniline	UNFI	50.000 ug/L D UJ		NA		NA
4-Nitrophenol	UNFI	50.000 ug/L D U		NA		NA
Acenaphthene	UNFI	10.000 ug/L D U		NA		NA
Acenaphthylene	UNFI	10.000 ug/L D U		NA		NA
Anthracene	UNFI	10.000 ug/L D U		NA		NA
Benzo(a)anthracene	UNFI	10.000 ug/L D U		NA		NA
Benzo(a)pyrene	UNFI	10.000 ug/L D U		NA		NA
Benzo(b)fluoranthene	UNFI	10.000 ug/L D U		NA		NA
Benzo(g,h,i)perylene	UNFI	10.000 ug/L D U		NA		NA
Benzo(k)fluoranthene	UNFI	10.000 ug/L D U		NA		NA
Benzoic acid	UNFI	50.000 ug/L D U		NA		NA
Benzyl alcohol	UNFI	10.000 ug/L D U		NA		NA
Butyl benzyl phthalate	UNFI	10.000 ug/L D U		NA		NA
Chrysene	UNFI	10.000 ug/L D U		NA		NA
Di-n-butyl phthalate	UNFI	10.000 ug/L D U		NA		NA
Di-n-octyl phthalate	UNFI	10.000 ug/L D U		NA		NA
Dibenzo(a,h)anthracene	UNFI	10.000 ug/L D U		NA		NA
Dibenzofuran	UNFI	10.000 ug/L D U		NA		NA
Diethyl phthalate	UNFI	20.000 ug/L D -		NA		NA
Dimethyl phthalate	UNFI	10.000 ug/L D U		NA		NA
Fluoranthene	UNFI	10.000 ug/L D U		NA		NA
Fluorene	UNFI	10.000 ug/L D U		NA		NA
Hexachlorobenzene	UNFI	10.000 ug/L D U		NA		NA

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060300

TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	2065				2065				2065			
SAMPLE NUMBER	003095				003438				003544			
SAMPLING DATE	04/19/88				08/04/88				02/02/89			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS
<u>Semivolatile Organics</u>												
Hexachlorobutadiene	UNFI	10.000	ug/L	D	U		NA					NA
Hexachlorocyclopentadiene	UNFI	10.000	ug/L	D	U		NA					NA
Hexachloroethane	UNFI	10.000	ug/L	D	U		NA					NA
Indeno(1,2,3-cd)pyrene	UNFI	10.000	ug/L	D	U		NA					NA
Isophorone	UNFI	10.000	ug/L	D	U		NA					NA
Methyl parathion		NA					NA				UNFI	0.250 ug/L C UJ
N-Nitroso-di-n-propylamine	UNFI	10.000	ug/L	D	U		NA					NA
N-Nitrosodiphenylamine	UNFI	10.000	ug/L	D	U		NA					NA
Naphthalene	UNFI	10.000	ug/L	D	U		NA					NA
Nitrobenzene	UNFI	10.000	ug/L	D	U		NA					NA
Parathion		NA					NA				UNFI	0.250 ug/L C UJ
Pentachlorophenol	UNFI	50.000	ug/L	D	U		NA					NA
Phenanthrene	UNFI	10.000	ug/L	D	U		NA					NA
Phenol	UNFI	10.000	ug/L	D	U		NA					NA
Pyrene	UNFI	10.000	ug/L	D	U		NA					NA
bis(2-Chloroethoxy)methane	UNFI	10.000	ug/L	D	U		NA					NA
bis(2-Chloroethyl)ether	UNFI	10.000	ug/L	D	U		NA					NA
bis(2-Chloroisopropyl) ether	UNFI	10.000	ug/L	D	U		NA					NA
bis(2-Ethylhexyl) phthalate	UNFI	10.000	ug/L	D	U		NA					NA
p-Chloroaniline	UNFI	10.000	ug/L	D	U		NA					NA
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	UNFI	0.100	ug/L	D	U		NA					NA
4,4'-DDE	UNFI	0.100	ug/L	D	U		NA					NA
4,4'-DDT	UNFI	0.100	ug/L	D	U		NA					NA
Aldrin	UNFI	0.050	ug/L	D	U		NA					NA
Aroclor-1016	UNFI	0.500	ug/L	D	U		NA					NA
Aroclor-1221	UNFI	0.500	ug/L	D	U		NA					NA
Aroclor-1232	UNFI	0.500	ug/L	D	U		NA					NA
Aroclor-1242	UNFI	0.500	ug/L	D	U		NA					NA
Aroclor-1248	UNFI	0.500	ug/L	D	U		NA					NA
Aroclor-1254	UNFI	1.000	ug/L	D	U		NA					NA
Aroclor-1260	UNFI	1.000	ug/L	D	U		NA					NA
Azinphosmethyl		NA					NA				UNFI	2.500 ug/L C UJ
Demeton		NA					NA				UNFI	0.250 ug/L C UJ
Diazinon		NA					NA				UNFI	0.250 ug/L C UJ
Dieldrin		NA					NA					NA
Disulfoton	UNFI	0.050	ug/L	D	U		NA				UNFI	0.250 ug/L C UJ
Endosulfan II	UNFI	0.100	ug/L	D	U		NA					NA
Endosulfan sulfate	UNFI	0.100	ug/L	D	U		NA					NA
Endosulfan-I	UNFI	0.050	ug/L	D	U		NA					NA

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000301

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TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	2065 003095				2065 003438				2065 003544						
SAMPLING DATE	04/19/88				08/04/88				02/02/89						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Pesticide Organics/PCBs</u>															
Endrin	UNFI	0.050	ug/L	D	U		NA					NA			
Endrin ketone	UNFI	0.100	ug/L	D	U		NA					NA			
Ethion		NA					NA					UNFI	0.250	ug/L	C UJ
Heptachlor	UNFI	0.050	ug/L	D	U		NA					NA			
Heptachlor epoxide	UNFI	0.050	ug/L	D	U		NA					NA			
Malathion		NA					NA					UNFI	0.250	ug/L	C UJ
Methoxychlor	UNFI	0.500	ug/L	D	U		NA					NA			
Toxaphene	UNFI	1.000	ug/L	D	U		NA					NA			
alpha-BHC	UNFI	0.050	ug/L	D	U		NA					NA			
alpha-Chlordane	UNFI	0.500	ug/L	D	U		NA					NA			
beta-BHC	UNFI	0.050	ug/L	D	U		NA					NA			
delta-BHC	UNFI	0.050	ug/L	D	U		NA					NA			
gamma-BHC (Lindane)	UNFI	0.050	ug/L	D	U		NA					NA			
gamma-Chlordane	UNFI	0.500	ug/L	D	U		NA					NA			
<u>General Chemistry</u>															
Ammonia	UNFI	0.200	mg/L	C	J	UNFI	0.100	mg/L	C	UJ		NA			
Chloride	UNFI	13.200	mg/L	C	J	UNFI	14.000	mg/L	C	-		NA			
Fluoride		NA				UNFI	0.170	mg/L	C	-		NA			
Fluoride	UNKN	0.270	mg/L	C	J		NA					NA			
Nitrate		NA				UNFI	0.100	mg/L	C	-		NA			
Nitrate	UNKN	0.150	mg/L	C	J		NA					NA			
Phenols	UNFI	0.010	mg/L	C	R	UNFI	0.020	mg/L	C	J		NA			
Phosphorus	UNFI	0.050	mg/L	C	R	UNFI	0.050	mg/L	C	U		NA			
Sulfate	UNFI	165.000	mg/L	C	J	UNFI	198.000	mg/L	C	-		NA			
Total Organic Nitrogen	UNFI	0.200	mg/L	C	J	UNFI	0.100	mg/L	C	-		NA			

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0000302

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TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	2065				2065				2065						
SAMPLE NUMBER	003693				003884				004163						
SAMPLING DATE	11/08/88				02/02/89				07/30/89						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>															
Aluminum		NA					NA				FLIT	0.174	mg/L	C	-
Arsenic	FILT	0.002	mg/L	C	U	FILT	0.002	mg/L	C	U	FILT	0.002	mg/L	C	UJ
Barium	FILT	0.060	mg/L	C	-	FILT	0.077	mg/L	C	-	FILT	0.050	mg/L	C	-
Cadmium	FILT	0.002	mg/L	C	U	FILT	0.009	mg/L	C	-	FILT	0.008	mg/L	C	-
Calcium	FILT	140.000	mg/L	C	-	FILT	185.000	mg/L	C	-	FILT	184.000	mg/L	C	-
Chromium	FILT	0.020	mg/L	C	U	FILT	0.037	mg/L	C	-	FILT	0.050	mg/L	C	-
Copper	FILT	0.010	mg/L	C	U	FILT	0.026	mg/L	C	-	FILT	0.013	mg/L	C	-
Iron	FILT	0.900	mg/L	C	U	FILT	1.110	mg/L	C	-	FILT	0.111	mg/L	C	-
Lead	FILT	0.004	mg/L	C	-	FILT	0.002	mg/L	C	U	FILT	0.002	mg/L	C	U
Magnesium	FILT	39.400	mg/L	C	-	FILT	51.300	mg/L	C	-	FILT	54.300	mg/L	C	-
Manganese	FILT	0.450	mg/L	C	U	FILT	0.517	mg/L	C	U	FILT	0.326	mg/L	C	-
Mercury	FILT	0.000	mg/L	C	U	FILT	0.001	mg/L	C	UJ	FILT	0.000	mg/L	C	UJ
Molybdenum	FILT	0.020	mg/L	C	U	FILT	0.020	mg/L	C	U	FILT	0.010	mg/L	C	U
Nickel	FILT	0.020	mg/L	C	U	FILT	0.032	mg/L	C	-	FILT	0.020	mg/L	C	U
Potassium	FILT	2.630	mg/L	C	-	FILT	3.190	mg/L	C	-	FILT	2.850	mg/L	C	-
Selenium	FILT	0.002	mg/L	C	U	FILT	0.006	mg/L	C	J	FILT	0.002	mg/L	C	-
Silicon		NA					NA				FILT	5.350	mg/L	C	-
Silver	FILT	0.100	mg/L	C	U	FILT	0.001	mg/L	C	U	FILT	0.012	mg/L	C	-
Sodium	FILT	12.400	mg/L	C	-	FILT	14.200	mg/L	C	-	FILT	16.100	mg/L	C	-
Vanadium		NA					NA				FILT	0.026	mg/L	C	-
<u>General Chemistry</u>															
Ammonia	UNFI	0.100	mg/L	C	U	UNFI	0.100	mg/L	C	U	UNFI	0.100	mg/L	C	U
Chloride	UNFI	15.500	mg/L	C	-	NA					UNFI	15.000	mg/L	C	-
Fluoride	UNFI	0.100	mg/L	C	U	UNFI	0.110	mg/L	C	-	NA				
Fluoride		NA					NA				UNKN	0.140	mg/L	C	-
Nitrate	UNFI	0.100	mg/L	C	U	UNFI	0.100	mg/L	C	R	UNFI	0.145	mg/L	C	U
Phenols	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	R	UNFI	0.010	mg/L	C	U
Phosphorus	UNFI	0.020	mg/L	C	U	UNFI	0.080	mg/L	C	J	UNFI	0.569	mg/L	C	-
Sulfate	UNFI	133.000	mg/L	C	-	UNFI	229.000	mg/L	C	-	UNFI	281.000	mg/L	C	UJ
Sulfide		NA					NA				UNFI	0.500	mg/L	C	UJ
Total Kjeldahl Nitrogen	UNFI	0.130	mg/L	C	U	UNFI	0.100	mg/L	C	J	UNFI	0.409	mg/L	C	-
Total Organic Carbon		NA					NA				UNFI	3.010	mg/L	C	-
Total Organic Halides	UNFI	0.050	mg/L	C	U	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	U
Total Organic Nitrogen	UNFI	0.130	mg/L	C	-	UNFI	0.100	mg/L	C	-	UNFI	0.409	mg/L	C	-

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000803

TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	2065 004225				2065 003538 DUPLICATE 02/02/89				2065 004168 DUPLICATE 07/30/89							
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Inorganics</u>																
Aluminum	FILT	0.163	mg/L	C	J		NA				FILT	0.178	mg/L	C	-	
Arsenic	FILT	0.002	mg/L	C	U		0.002	mg/L	C	U	FILT	0.002	mg/L	C	UJ	
Barium	FILT	0.045	mg/L	C	J		0.072	mg/L	C	-	FILT	0.048	mg/L	C	-	
Cadmium	FILT	0.007	mg/L	C	J		0.009	mg/L	C	-	FILT	0.008	mg/L	C	-	
Calcium	FILT	170.000	mg/L	C	J		177.000	mg/L	C	-	FILT	183.000	mg/L	C	-	
Chromium	FILT	0.052	mg/L	C	J		0.033	mg/L	C	-	FILT	0.052	mg/L	C	-	
Copper	FILT	0.010	mg/L	C	UJ		0.024	mg/L	C	-	FILT	0.014	mg/L	C	-	
Iron	FILT	0.079	mg/L	C	UJ		1.020	mg/L	C	-	FILT	0.073	mg/L	C	-	
Lead	FILT	0.003	mg/L	C	-		0.002	mg/L	C	-	FILT	0.004	mg/L	C	-	
Magnesium	FILT	58.200	mg/L	C	J		50.100	mg/L	C	-	FILT	54.300	mg/L	C	-	
Manganese	FILT	0.168	mg/L	C	J		0.497	mg/L	C	-	FILT	0.277	mg/L	C	-	
Mercury	FILT	0.000	mg/L	C	U		0.001	mg/L	C	J	FILT	0.000	mg/L	C	UJ	
Molybdenum	FILT	0.010	mg/L	C	UJ		0.020	mg/L	C	U	FILT	0.010	mg/L	C	U	
Nickel	FILT	0.020	mg/L	C	UJ		0.023	mg/L	C	-	FILT	0.020	mg/L	C	U	
Potassium	FILT	3.460	mg/L	C	J		3.250	mg/L	C	-	FILT	2.950	mg/L	C	-	
Selenium	FILT	0.002	mg/L	C	U		0.005	mg/L	C	J	FILT	0.002	mg/L	C	U	
Silicon	FILT	5.150	mg/L	C	J		NA				FILT	5.220	mg/L	C	-	
Silver	FILT	0.016	mg/L	C	J		0.001	mg/L	C	U	FILT	0.013	mg/L	C	-	
Sodium	FILT	14.900	mg/L	C	J		14.000	mg/L	C	-	FILT	15.600	mg/L	C	-	
Vanadium	FILT	0.031	mg/L	C	J		NA				FILT	0.026	mg/L	C	-	
<u>General Chemistry</u>																
Ammonia	UNFI	0.100	mg/L	C	U		UNFI	0.100	mg/L	C	U	UNFI	0.100	mg/L	C	U
Chloride	UNFI	8.510	mg/L	C	-		NA				UNFI	11.900	mg/L	C	-	
Fluoride	UNFI	0.110	mg/L	C	J		0.110	mg/L	C	-	UNFI	0.140	mg/L	C	-	
Nitrate	UNFI	0.170	mg/L	C	J		UNFI	0.100	mg/L	C	R	UNFI	0.174	mg/L	C	J
Phenols	UNFI	0.014	mg/L	C	-		UNFI	0.010	mg/L	C	R	UNFI	0.010	mg/L	C	U
Phosphorus	UNFI	0.670	mg/L	C	-		UNFI	0.060	mg/L	C	J	UNFI	0.563	mg/L	C	-
Sulfate	UNFI	278.000	mg/L	C	J		UNFI	214.000	mg/L	C	-	UNFI	292.000	mg/L	C	-
Sulfide	UNFI	0.500	mg/L	C	UJ		NA				UNFI	0.500	mg/L	C	UJ	
Total Kjeldahl Nitrogen	NA						UNFI	1.790	mg/L	C	J	UNFI	0.452	mg/L	C	-
Total Organic Carbon	NA						NA				UNFI	1.470	mg/L	C	-	
Total Organic Halides	NA						UNFI	0.010	mg/L	C	U	NA				
Total Organic Halides	UNKN	0.013	mg/L	C	UJ		NA				UNKN	0.010	mg/L	C	U	
Total Organic Nitrogen	UNFI	0.100	mg/L	C	U		UNFI	1.790	mg/L	C	-	UNFI	0.452	mg/L	C	-

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000804

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TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	2385			2385			2401					
SAMPLE NUMBER	004192			004303			038375					
SAMPLING DATE	05/06/90			07/10/90			06/03/92					
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ		
<u>Inorganics</u>												
Aluminum	FILT	0.100	mg/L	C	-	FILT	0.070	mg/L	C	-		
Aluminum		NA					NA		0.043	mg/L	D	-
Arsenic	FILT	0.002	mg/L	C	U	FILT	0.002	mg/L	C	UJ		
Arsenic		NA					NA		0.001	mg/L	D	U
Barium	FILT	0.064	mg/L	C	-	FILT	0.071	mg/L	C	-		
Barium		NA					NA		0.056	mg/L	D	-
Cadmium	FILT	0.008	mg/L	C	-	FILT	0.006	mg/L	C	-		
Cadmium		NA					NA		0.006	mg/L	D	U
Calcium	FILT	146.000	mg/L	C	-	FILT	136.000	mg/L	C	-		
Calcium		NA					NA		116.000	mg/L	D	-
Chromium	FILT	0.041	mg/L	C	-	FILT	0.038	mg/L	C	-		
Chromium		NA					NA		0.004	mg/L	D	U
Copper	FILT	0.015	mg/L	C	-	FILT	0.012	mg/L	C	-		
Copper		NA					NA		0.008	mg/L	D	UJ
Iron	FILT	0.044	mg/L	C	-	FILT	0.163	mg/L	C	-		
Iron		NA					NA		0.011	mg/L	D	U
Lead	FILT	0.002	mg/L	C	U	FILT	0.002	mg/L	C	U		
Lead		NA					NA		0.001	mg/L	D	U
Magnesium	FILT	44.200	mg/L	C	-	FILT	40.600	mg/L	C	-		
Magnesium		NA					NA		32.900	mg/L	D	-
Manganese	FILT	0.330	mg/L	C	-	FILT	0.198	mg/L	C	-		
Manganese		NA					NA		0.003	mg/L	D	-
Mercury	FILT	0.000	mg/L	C	U	FILT	0.000	mg/L	C	U		
Mercury		NA					NA		0.000	mg/L	D	U
Molybdenum	FILT	0.014	mg/L	C	-	FILT	0.010	mg/L	C	UJ		
Molybdenum		NA					UNKN		0.011	mg/L	D	U
Nickel	FILT	0.042	mg/L	C	-	FILT	0.023	mg/L	C	-		
Nickel		NA					UNKN		0.044	mg/L	D	U
Potassium	FILT	1.870	mg/L	C	-	FILT	2.860	mg/L	C	-		
Potassium		NA					UNKN		1.960	mg/L	D	-
Selenium	FILT	0.002	mg/L	C	U	FILT	0.002	mg/L	C	U		
Selenium		NA					UNKN		0.001	mg/L	D	U
Silicon	FILT	6.010	mg/L	C	-	FILT	5.610	mg/L	C	-		
Silicon		NA					UNKN		4.280	mg/L	D	J
Silver	FILT	0.026	mg/L	C	-	FILT	0.018	mg/L	C	-		
Silver		NA					UNKN		0.004	mg/L	D	U
Sodium	FILT	12.600	mg/L	C	-	FILT	12.300	mg/L	C	-		
Sodium		NA					UNKN		10.200	mg/L	D	-
Vanadium	FILT	0.022	mg/L	C	-	FILT	0.016	mg/L	C	-		
Vanadium		NA					UNKN		0.007	mg/L	D	U
<u>General Chemistry</u>												
Ammonia	UNFI	0.100	mg/L	C	U	UNFI	0.100	mg/L	C	UJ		

TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2385 004192				2385 004303				2401 038375			
SAMPLING DATE	05/06/90				07/10/90				06/03/92			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>General Chemistry</u>												
Chloride	UNFI	10.700	mg/L	C -	UNFI	10.400	mg/L	C -	UNFI	11.000	mg/L	C -
Fluoride	UNFI	0.240	mg/L	C -	UNFI	0.050	mg/L	C UJ	UNFI	0.600	mg/L	C J
Nitrate	UNFI	1.260	mg/L	C J	UNFI	0.330	mg/L	C R	UNFI	1.100	mg/L	C -
Phenols	UNFI	0.010	mg/L	C U	UNFI	0.010	mg/L	C UJ	UNFI	0.010	mg/L	C U
Phosphorus	UNFI	0.400	mg/L	C -	UNFI	0.020	mg/L	C UJ	UNFI	0.080	mg/L	C -
Sulfate	UNFI	96.800	mg/L	C -	UNFI	91.700	mg/L	C -	UNFI	74.000	mg/L	C -
Sulfide	UNFI	0.500	mg/L	C U	UNFI	0.500	mg/L	C UJ	UNFI	0.500	mg/L	C U
Total Organic Carbon	UNFI	62.000	mg/L	C -	UNFI	2.890	mg/L	C -	UNFI	22.000	mg/L	C -
Total Organic Halides	UNFI	0.010	mg/L	C UJ	UNFI	0.013	mg/L	C -	UNFI	0.010	mg/L	C J
Total Organic Nitrogen	UNFI	0.100	mg/L	C UJ	UNFI	0.170	mg/L	C -	UNFI	1.000	mg/L	C UJ

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000806

TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	3014 003084				3014 003385				3014 003672								
SAMPLING DATE	04/08/88				07/28/88				11/06/88								
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ		
<u>Inorganics</u>																	
Arsenic		NA				*F	0.010	mg/L	C	UJ		NA					
Arsenic	FILT	0.200	mg/L	C	UJ	*F	NA	0.200	mg/L	C	U	FILT	0.002	mg/L	C	UJ	
Barium		NA				*F	NA	0.200	mg/L	C	U	FILT	NA	0.030	mg/L	C	-
Barium	FILT	0.027	mg/L	C	R	*F	NA	0.005	mg/L	C	U	FILT	NA	0.004	mg/L	C	-
Cadmium		NA				*F	NA	78.000	mg/L	C	J	FILT	NA	74.100	mg/L	C	-
Cadmium	FILT	0.002	mg/L	C	U	*F	NA	0.010	mg/L	C	U	FILT	NA	0.020	mg/L	C	U
Calcium		NA				*F	NA	0.020	mg/L	C	U	FILT	NA	0.010	mg/L	C	U
Calcium	FILT	73.400	mg/L	C	-	*F	NA	0.100	mg/L	C	U	FILT	NA	0.030	mg/L	C	-
Chromium		NA				*F	NA	0.001	mg/L	C	U	FILT	NA	0.001	mg/L	C	U
Chromium	FILT	0.020	mg/L	C	U	*F	NA	0.050	mg/L	C	U	FILT	NA	0.000	mg/L	C	U
Copper		NA				*F	NA	0.025	mg/L	C	U	FILT	NA	0.020	mg/L	C	U
Copper	FILT	0.010	mg/L	C	U	*F	NA	0.100	mg/L	C	U	FILT	NA	0.010	mg/L	C	U
Iron		NA				*F	NA	0.200	mg/L	C	U	FILT	NA	0.030	mg/L	C	-
Iron	FILT	0.005	mg/L	C	U	*F	NA	21.000	mg/L	C	-	FILT	NA	18.700	mg/L	C	-
Lead		NA				*F	NA	0.015	mg/L	C	U	FILT	NA	0.001	mg/L	C	U
Lead	FILT	0.050	mg/L	C	U	*F	NA	0.001	mg/L	C	U	FILT	NA	0.000	mg/L	C	U
Magnesium		NA				*F	NA	0.050	mg/L	C	U	FILT	NA	0.020	mg/L	C	U
Magnesium	FILT	18.050	mg/L	C	-	*F	NA	0.040	mg/L	C	U	FILT	NA	0.020	mg/L	C	U
Manganese		NA				*F	NA	5.000	mg/L	C	U	FILT	NA	0.020	mg/L	C	U
Manganese	FILT	0.001	mg/L	C	U	*F	NA	0.005	mg/L	C	U	FILT	NA	0.002	mg/L	C	J
Mercury		NA				*F	NA	0.010	mg/L	C	UJ	FILT	NA	0.010	mg/L	C	U
Mercury	FILT	0.000	mg/L	C	U	*F	NA	13.000	mg/L	C	-	FILT	NA	10.900	mg/L	C	-
Molybdenum		NA				*F	NA	1.940	mg/L	C	-						
Molybdenum	FILT	0.020	mg/L	C	U	*F	NA	0.005	mg/L	C	U						
Nickel		NA				*F	NA	0.010	mg/L	C	UJ						
Nickel	FILT	0.020	mg/L	C	U	*F	NA	0.010	mg/L	C	UJ						
Potassium		NA				*F	NA	13.000	mg/L	C	-						
Potassium	FILT	2.460	mg/L	C	-	*F	NA	0.050	mg/L	C	U						
Selenium		NA				*F	NA	0.005	mg/L	C	U						
Selenium	FILT	0.200	mg/L	C	UJ	*F	NA	0.010	mg/L	C	UJ						
Silver		NA				*F	NA	0.010	mg/L	C	UJ						
Silver	FILT	0.010	mg/L	C	U	*F	NA	0.050	mg/L	C	U						
Sodium		NA				*F	NA	0.100	mg/L	C	UJ						
Sodium	FILT	9.660	mg/L	C	-	*F	NA	25.800	mg/L	C	-						
<u>General Chemistry</u>																	
Ammonia	UNFI	0.100	mg/L	C	U	UNFI	0.100	mg/L	C	UJ	UNFI	0.100	mg/L	C	UJ		
Chloride	UNFI	24.700	mg/L	C	-	UNFI	24.000	mg/L	C	J	UNFI	25.800	mg/L	C	-		
Fluoride	UNFI	0.300	mg/L	C	-	UNFI	0.870	mg/L	C	R	UNFI	0.160	mg/L	C	J		
Nitrate	UNFI	0.100	mg/L	C	J	UNFI	3.800	mg/L	C	J	UNFI	1.680	mg/L	C	J		
Phenols	UNFI	0.010	mg/L	C	U	UNFI	0.050	mg/L	C	U	UNFI	0.010	mg/L	C	U		

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TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	3014 003084				3014 003385				3014 003672						
SAMPLING DATE	04/08/88				07/28/88				11/06/88						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>General Chemistry</u>															
Phosphorus	UNFI	0.240	mg/L	C	-	UNFI	0.060	mg/L	C	R	UNFI	0.020	mg/L	C	U
Sulfate	UNFI	48.000	mg/L	C	-	UNFI	62.000	mg/L	C	R	UNFI	51.400	mg/L	C	-
Total Kjeldahl Nitrogen		NA					NA					0.290	mg/L	C	J
Total Organic Halides		NA					NA					1.100	mg/L	C	-
Total Organic Nitrogen	UNFI	0.300	mg/L	C	-	UNFI	0.100	mg/L	C	UJ	UNFI	0.290	mg/L	C	J

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000808

TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	3014 003870				3014 004239				3045 004198						
SAMPLING DATE	01/31/89				04/01/90				05/23/90						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>															
Aluminum		NA				FILT	0.103	mg/L	C	-	FILT	0.039	mg/L	C	-
Arsenic	FILT	0.002	mg/L	C	U	FILT	0.002	mg/L	C	UJ	FILT	0.002	mg/L	C	U
Barium	FILT	0.037	mg/L	C	-	FILT	0.029	mg/L	C	-	FILT	0.047	mg/L	C	-
Cadmium	FILT	0.002	mg/L	C	U	FILT	0.003	mg/L	C	-	FILT	0.001	mg/L	C	-
Calcium	FILT	87.000	mg/L	C	-	FILT	73.300	mg/L	C	-	FILT	88.900	mg/L	C	-
Chromium	FILT	0.024	mg/L	C	-	FILT	0.025	mg/L	C	-	FILT	0.004	mg/L	C	-
Copper	FILT	0.014	mg/L	C	-	FILT	0.010	mg/L	C	U	FILT	0.007	mg/L	C	U
Iron	FILT	0.068	mg/L	C	U	FILT	0.073	mg/L	C	U	FILT	0.128	mg/L	C	U
Lead	FILT	0.002	mg/L	C	U	FILT	0.002	mg/L	C	U	FILT	0.001	mg/L	C	U
Magnesium	FILT	22.700	mg/L	C	-	FILT	19.300	mg/L	C	-	FILT	22.500	mg/L	C	-
Manganese	FILT	0.004	mg/L	C	-	FILT	0.006	mg/L	C	-	FILT	0.088	mg/L	C	-
Mercury	FILT	0.001	mg/L	C	-	FILT	0.000	mg/L	C	U	FILT	0.000	mg/L	C	U
Molybdenum	FILT	0.020	mg/L	C	U	FILT	0.010	mg/L	C	UJ	FILT	0.007	mg/L	C	-
Nickel	FILT	0.020	mg/L	C	U	FILT	0.020	mg/L	C	U	FILT	0.005	mg/L	C	-
Potassium	FILT	2.470	mg/L	C	-	FILT	2.520	mg/L	C	-	FILT	2.600	mg/L	C	-
Selenium	FILT	0.004	mg/L	C	-	FILT	0.002	mg/L	C	U	FILT	0.003	mg/L	C	U
Silicon	NA					FILT	2.650	mg/L	C	-	FILT	1.900	mg/L	C	-
Silver	FILT	0.001	mg/L	C	U	FILT	0.010	mg/L	C	U	FILT	0.003	mg/L	C	U
Sodium	FILT	12.700	mg/L	C	-	FILT	12.400	mg/L	C	-	FILT	10.200	mg/L	C	-
Vanadium		NA				FILT	0.014	mg/L	C	-	FILT	0.006	mg/L	C	-
<u>General Chemistry</u>															
Ammonia	UNFI	0.108	mg/L	C	-	UNFI	0.100	mg/L	C	U	UNFI	0.200	mg/L	C	-
Chloride	UNFI	23.000	mg/L	C	-	UNFI	9.510	mg/L	C	-	UNFI	21.000	mg/L	C	-
Fluoride	UNFI	0.105	mg/L	C	-	UNFI	0.230	mg/L	C	-	UNFI	0.100	mg/L	C	-
Nitrate	UNFI	2.910	mg/L	C	-	UNFI	3.130	mg/L	C	J	UNFI	0.900	mg/L	C	J
Phenols	UNFI	0.020	mg/L	C	-	UNFI	0.018	mg/L	C	-	UNFI	0.017	mg/L	C	-
Phosphorus	NA					UNFI	0.140	mg/L	C	-	NA				
Sulfate	NA					UNFI	53.600	mg/L	C	-	UNFI	72.000	mg/L	C	-
Sulfate	UNKN	50.700	mg/L	C	-	NA					NA				
Sulfide	NA					UNFI	0.500	mg/L	C	U	UNFI	2.000	mg/L	C	J
Total Kjeldahl Nitrogen	UNFI	0.286	mg/L	C	-	NA					NA				
Total Organic Carbon		NA				UNFI	4.450	mg/L	C	J	UNFI	2.000	mg/L	C	J
Total Organic Halides		NA				UNFI	0.379	mg/L	C	R	UNFI	0.050	mg/L	C	U
Total Organic Halides	UNKN	1.310	mg/L	C	-	NA					NA				
Total Organic Nitrogen	UNFI	0.178	mg/L	C	-	UNFI	0.280	mg/L	C	-	UNFI	0.000	mg/L	C	J

TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	3046 004207				3046 004332				3065 003995						
SAMPLING DATE	06/15/90				08/24/90				01/25/89						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>															
Aluminum	FILT	0.060	mg/L	C	U	FILT	0.060	mg/L	C	U		NA			
Arsenic	FILT	0.002	mg/L	C	U	FILT	0.002	mg/L	C	U	FILT	0.002	mg/L	C	U
Barium	FILT	0.051	mg/L	C	-	FILT	0.045	mg/L	C	-	FILT	0.051	mg/L	C	-
Cadmium	FILT	0.005	mg/L	C	-	FILT	0.003	mg/L	C	-	FILT	0.004	mg/L	C	-
Calcium	FILT	85.500	mg/L	C	-	FILT	83.800	mg/L	C	-	FILT	83.400	mg/L	C	-
Chromium	FILT	0.042	mg/L	C	-	FILT	0.026	mg/L	C	-	FILT	0.021	mg/L	C	-
Copper	FILT	0.010	mg/L	C	U	FILT	0.010	mg/L	C	U	FILT	0.011	mg/L	C	-
Iron	FILT	0.691	mg/L	C	-	FILT	0.257	mg/L	C	-	FILT	2.800	mg/L	C	U
Lead	FILT	0.002	mg/L	C	U	FILT	0.008	mg/L	C	U	FILT	0.002	mg/L	C	U
Magnesium	FILT	22.900	mg/L	C	-	FILT	21.400	mg/L	C	-	FILT	21.000	mg/L	C	-
Manganese	FILT	0.340	mg/L	C	-	FILT	0.313	mg/L	C	-	FILT	0.223	mg/L	C	-
Mercury	FILT	0.000	mg/L	C	U	FILT	0.000	mg/L	C	U	FILT	0.000	mg/L	C	U
Molybdenum	FILT	0.010	mg/L	C	U	FILT	0.010	mg/L	C	U	FILT	0.020	mg/L	C	U
Nickel	FILT	0.030	mg/L	C	-	FILT	0.020	mg/L	C	-	FILT	0.025	mg/L	C	-
Potassium	FILT	2.680	mg/L	C	-	FILT	2.650	mg/L	C	-	FILT	2.650	mg/L	C	-
Selenium	FILT	0.002	mg/L	C	U	FILT	0.002	mg/L	C	U	FILT	0.002	mg/L	C	U
Silicon	FILT	3.610	mg/L	C	-	FILT	3.340	mg/L	C	-		NA			
Silver	FILT	0.013	mg/L	C	-	FILT	0.012	mg/L	C	-	FILT	0.001	mg/L	C	U
Sodium	FILT	12.300	mg/L	C	U	FILT	11.100	mg/L	C	U	FILT	10.400	mg/L	C	-
Vanadium	FILT	0.010	mg/L	C	U	FILT	0.010	mg/L	C	U		NA			
<u>General Chemistry</u>															
Ammonia	UNFI	0.100	mg/L	C	U	UNFI	0.100	mg/L	C	U	UNFI	0.100	mg/L	C	U
Chloride	UNFI	11.360	mg/L	C	-	UNFI	25.300	mg/L	C	-	UNFI	19.000	mg/L	C	-
Fluoride	UNFI	0.137	mg/L	C	-	UNFI	0.140	mg/L	C	-	UNFI	0.060	mg/L	C	-
Nitrate	UNFI	0.560	mg/L	C	-	UNFI	0.400	mg/L	C	-	UNFI	0.100	mg/L	C	U
Phenols	UNFI	0.010	mg/L	C	UJ	UNFI	0.010	mg/L	C	UJ	UNFI	0.010	mg/L	C	-
Phosphorus	UNFI	0.140	mg/L	C	-	UNFI	0.020	mg/L	C	U	UNFI	0.670	mg/L	C	-
Sulfate	UNFI	74.200	mg/L	C	-	UNFI	83.600	mg/L	C	-	UNFI	62.500	mg/L	C	-
Sulfide	UNFI	0.720	mg/L	C	-	UNFI	0.500	mg/L	C	UJ		NA			
Total Kjeldahl Nitrogen	NA					NA					UNFI	0.100	mg/L	C	-
Total Organic Carbon	UNFI	2.990	mg/L	C	-	UNFI	2.100	mg/L	C	-		NA			
Total Organic Halides	UNFI	0.011	mg/L	C	-	UNFI	0.019	mg/L	C	J	UNFI	0.010	mg/L	C	U
Total Organic Nitrogen	UNFI	0.120	mg/L	C	-	UNFI	0.140	mg/L	C	-	UNFI	0.100	mg/L	C	-

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TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	3065 004098			3065 004249			3385 004309									
SAMPLING DATE	05/31/89			04/09/90			07/24/90									
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Inorganics</u>																
Aluminum		NA					NA				*F	0.067	mg/L	C	-	
Aluminum	FILT	0.086	mg/L	C	-		FILT	0.109	mg/L	C	J	*F	NA			
Arsenic		NA					NA				*F	0.002	mg/L	C	UJ	
Arsenic	FILT	0.002	mg/L	C	U		FILT	0.002	mg/L	C	U	*F	NA			
Barium		NA					NA				*F	0.057	mg/L	C	-	
Barium	FILT	0.056	mg/L	C	-		FILT	0.059	mg/L	C	J	*F	NA			
Cadmium		NA					NA				*F	0.004	mg/L	C	-	
Cadmium	FILT	0.005	mg/L	C	-		FILT	0.003	mg/L	C	J	*F	NA			
Calcium		NA					NA				*F	92.700	mg/L	C	-	
Calcium	FILT	87.050	mg/L	C	-		FILT	90.600	mg/L	C	J	*F	NA			
Chromium		NA					NA				*F	0.025	mg/L	C	-	
Chromium	FILT	0.035	mg/L	C	-		FILT	0.033	mg/L	C	J	*F	NA			
Copper		NA					NA				*F	0.010	mg/L	C	U	
Iron	FILT	0.010	mg/L	C	U		FILT	0.010	mg/L	C	UJ	*F	NA			
Iron		NA					NA				*F	2.390	mg/L	C	-	
Lead	FILT	1.550	mg/L	C	-		FILT	1.390	mg/L	C	J	*F	NA			
Lead		NA					NA				*F	0.002	mg/L	C	U	
Magnesium	FILT	0.003	mg/L	C	J		FILT	0.003	mg/L	C	-	*F	NA			
Magnesium		NA					NA				*F	24.400	mg/L	C	-	
Manganese	FILT	22.000	mg/L	C	-		FILT	23.000	mg/L	C	J	*F	NA			
Manganese		NA					NA				*F	0.392	mg/L	C	-	
Mercury	FILT	0.214	mg/L	C	-		FILT	0.232	mg/L	C	J	*F	NA			
Mercury		NA					NA				*F	0.000	mg/L	C	U	
Molybdenum	FILT	0.000	mg/L	C	U		FILT	0.000	mg/L	C	U	*F	NA			
Molybdenum		NA					NA				*F	0.010	mg/L	C	U	
Nickel	FILT	0.010	mg/L	C	U		FILT	0.010	mg/L	C	UJ	*F	NA			
Nickel		NA					NA				*F	0.029	mg/L	C	-	
Potassium	FILT	0.020	mg/L	C	U		FILT	0.020	mg/L	C	UJ	*F	NA			
Potassium		NA					NA				*F	3.050	mg/L	C	-	
Selenium	FILT	2.380	mg/L	C	-		FILT	2.510	mg/L	C	J	*F	NA			
Selenium		NA					NA				*F	0.002	mg/L	C	U	
Silicon	FILT	0.002	mg/L	C	UJ		FILT	0.002	mg/L	C	U	*F	NA			
Silicon		NA					NA				*F	3.890	mg/L	C	-	
Silver	FILT	4.240	mg/L	C	J		FILT	4.170	mg/L	C	J	*F	NA			
Silver		NA					NA				*F	0.012	mg/L	C	-	
Sodium	FILT	0.012	mg/L	C	-		FILT	0.011	mg/L	C	J	*F	NA			
Sodium		NA					NA				*F	12.600	mg/L	C	-	
Vanadium	FILT	9.940	mg/L	C	-		FILT	10.300	mg/L	C	J	*F	NA			
Vanadium		NA					NA				*F	0.010	mg/L	C	U	
	FILT	0.016	mg/L	C	-		FILT	0.017	mg/L	C	J	*F	NA			
<u>General Chemistry</u>																
Ammonia	UNFI	0.100	mg/L	C	U		UNFI	0.100	mg/L	C	U	UNFI	0.100	mg/L	C	U

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TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	3065 004098				3065 004249				3385 004309						
SAMPLING DATE	05/31/89				04/09/90				07/24/90						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>General Chemistry</u>															
Chloride	UNFI	20.000	mg/L	C	-	UNFI	9.940	mg/L	C	-	UNFI	13.900	mg/L	C	-
Fluoride	UNFI	0.170	mg/L	C	J	UNFI	0.100	mg/L	C	J	UNFI	0.140	mg/L	C	-
Nitrate	UNFI	0.100	mg/L	C	R	UNFI	0.170	mg/L	C	J	UNFI	0.250	mg/L	C	R
Phenols	UNFI	0.027	mg/L	C	-	UNFI	0.017	mg/L	C	-	UNFI	0.010	mg/L	C	U
Phosphorus	UNFI	0.020	mg/L	C	U	UNFI	0.030	mg/L	C	J	UNFI	0.480	mg/L	C	-
Sulfate	UNFI	106.000	mg/L	C	-	UNFI	89.100	mg/L	C	J	UNFI	75.200	mg/L	C	-
Sulfide	UNFI	1.000	mg/L	C	U	UNFI	0.500	mg/L	C	UJ	UNFI	0.500	mg/L	C	UJ
Total Kjeldahl Nitrogen	UNFI	0.112	mg/L	C	-	NA					NA				
Total Organic Carbon	UNFI	1.000	mg/L	C	U	NA					UNFI	1.500	mg/L	C	-
Total Organic Halides	UNFI	0.010	mg/L	C	J	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	UJ
Total Organic Nitrogen	UNFI	0.112	mg/L	C	J	UNFI	0.100	mg/L	C	U	UNFI	0.180	mg/L	C	-

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0000542

TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	3385				4014				4014						
SAMPLE NUMBER	004363				003871				004089						
SAMPLING DATE	01/10/91				01/31/89				05/01/89						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>															
Aluminum	FILT	0.069	mg/L	C	-		NA					NA			
Arsenic	FILT	0.002	mg/L	C	U	FILT	0.002	mg/L	C	U	FILT	0.002	mg/L	C	U
Barium	FILT	0.059	mg/L	C	-	FILT	0.071	mg/L	C	-	FILT	0.069	mg/L	C	-
Cadmium	FILT	0.003	mg/L	C	-	FILT	0.002	mg/L	C	U	FILT	0.003	mg/L	C	-
Calcium	FILT	85.800	mg/L	C	-	FILT	92.700	mg/L	C	-	FILT	92.000	mg/L	C	-
Chromium	FILT	0.017	mg/L	C	-	FILT	0.023	mg/L	C	-	FILT	0.014	mg/L	C	U
Copper	FILT	0.010	mg/L	C	U	FILT	0.012	mg/L	C	-	FILT	0.010	mg/L	C	U
Iron	FILT	0.343	mg/L	C	-	FILT	2.510	mg/L	C	-	FILT	1.910	mg/L	C	-
Lead	FILT	0.003	mg/L	C	-	FILT	0.002	mg/L	C	U	FILT	0.011	mg/L	C	R
Magnesium	FILT	23.000	mg/L	C	-	FILT	22.700	mg/L	C	-	FILT	22.100	mg/L	C	-
Manganese	FILT	0.328	mg/L	C	-	FILT	0.317	mg/L	C	-	FILT	0.350	mg/L	C	-
Mercury	FILT	0.000	mg/L	C	U	FILT	0.006	mg/L	C	-	FILT	0.003	mg/L	C	-
Molybdenum	FILT	0.010	mg/L	C	U	FILT	0.020	mg/L	C	U	FILT	0.010	mg/L	C	U
Nickel	FILT	0.020	mg/L	C	U	FILT	0.020	mg/L	C	U	FILT	0.020	mg/L	C	U
Potassium	FILT	2.850	mg/L	C	-	FILT	2.520	mg/L	C	-	FILT	2.220	mg/L	C	-
Selenium	FILT	0.002	mg/L	C	U	FILT	0.003	mg/L	C	-	FILT	0.002	mg/L	C	R
Silicon	FILT	3.850	mg/L	C	-		NA					NA			
Silver	FILT	0.018	mg/L	C	-	FILT	0.001	mg/L	C	U	FILT	0.001	mg/L	C	U
Sodium	FILT	11.200	mg/L	C	-	FILT	10.400	mg/L	C	-	FILT	10.200	mg/L	C	-
Vanadium	FILT	0.010	mg/L	C	U		NA					NA			
<u>General Chemistry</u>															
Ammonia	UNFI	0.100	mg/L	C	U		NA				UNFI	0.100	mg/L	C	U
Ammonia		NA				UNKN	0.202	mg/L	C	-		NA			
Chloride	UNFI	26.700	mg/L	C	-	UNFI	18.000	mg/L	C	-	UNFI	21.500	mg/L	C	-
Fluoride	UNFI	0.150	mg/L	C	U	UNFI	0.062	mg/L	C	-	UNFI	0.140	mg/L	C	-
Nitrate	UNFI	0.360	mg/L	C	J	UNFI	0.100	mg/L	C	U	UNFI	0.160	mg/L	C	J
Phenols	UNFI	0.010	mg/L	C	U	UNFI	0.100	mg/L	C	-	UNFI	0.035	mg/L	C	-
Phosphorus	UNFI	0.020	mg/L	C	U		NA				UNFI	0.124	mg/L	C	-
Sulfate	UNFI	74.130	mg/L	C	-	UNFI	58.400	mg/L	C	-	UNFI	72.000	mg/L	C	J
Sulfide	UNFI	0.500	mg/L	C	U		NA					NA			
Total Kjeldahl Nitrogen		NA				UNFI	0.192	mg/L	C	-	UNFI	0.100	mg/L	C	U
Total Organic Carbon	UNFI	2.640	mg/L	C	-		NA					NA			
Total Organic Halides	UNFI	0.164	mg/L	C	-	UNFI	0.010	mg/L	C	R	UNFI	0.010	mg/L	C	U
Total Organic Nitrogen	UNFI	0.160	mg/L	C	R	UNFI	0.100	mg/L	C	U	UNFI	0.100	mg/L	C	UJ

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TABLE F-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	4016			
SAMPLE NUMBER	003996			
SAMPLING DATE	01/20/89			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ
<u>Inorganics</u>				
Arsenic	FILT	0.002	mg/L	C U
Barium	FILT	0.039	mg/L	C -
Cadmium	FILT	0.005	mg/L	C -
Calcium	FILT	109.000	mg/L	C -
Chromium	FILT	0.024	mg/L	C -
Copper	FILT	0.012	mg/L	C -
Iron	FILT	1.560	mg/L	C -
Lead	FILT	0.002	mg/L	C R
Magnesium	FILT	27.800	mg/L	C -
Manganese	FILT	1.020	mg/L	C -
Mercury	FILT	0.000	mg/L	C U
Molybdenum	FILT	0.020	mg/L	C U
Nickel	FILT	0.020	mg/L	C U
Potassium	FILT	1.280	mg/L	C -
Selenium	FILT	0.002	mg/L	C UJ
Silver	FILT	0.001	mg/L	C R
Sodium	FILT	4.480	mg/L	C -
<u>General Chemistry</u>				
Ammonia	UNFI	0.210	mg/L	C J
Chloride	UNFI	6.500	mg/L	C -
Fluoride	UNFI	0.110	mg/L	C J
Nitrate	UNFI	0.100	mg/L	C R
Phenols	UNFI	0.011	mg/L	C -
Sulfate	UNFI	97.500	mg/L	C -
Total Kjeldahl Nitrogen	UNFI	0.520	mg/L	C R
Total Organic Halides	UNFI	0.016	mg/L	C J
Total Organic Nitrogen	UNFI	0.310	mg/L	C -

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000814

TABLE F-11A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1046				1065				1065			
SAMPLE NUMBER	116231				112013				112014			
SAMPLING DATE	05/11/93				05/04/93				05/04/93			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	UNFI	16.800	pCi/L	UJ	UNFI	10.500	pCi/L	UJ	UNFI	10.100	pCi/L	UJ
GROSS ALPHA	UNFI	9.790	pCi/L	UJ	UNFI	9.020	pCi/L	UJ	NA			
GROSS BETA	UNFI	8.810	pCi/L	J	UNFI	5.090	pCi/L	UJ	NA			
NP-237	UNFI	0.480	pCi/L	N	UNFI	0.220	pCi/L	N	UNFI	0.300	pCi/L	N
PU-238	UNFI	0.065	pCi/L	UJ	UNFI	0.090	pCi/L	J	UNFI	0.120	pCi/L	UJ
PU-239/240	UNFI	0.135	pCi/L	UJ	UNFI	0.110	pCi/L	U	UNFI	0.120	pCi/L	UJ
RA-226	UNFI	0.128	pCi/L	UJ	UNFI	0.130	pCi/L	UJ	UNFI	0.090	pCi/L	UJ
RA-228	UNFI	2.280	pCi/L	UJ	UNFI	1.460	pCi/L	UJ	UNFI	1.250	pCi/L	UJ
RU-106	UNFI	115.000	pCi/L	UJ	UNFI	150.000	pCi/L	UJ	UNFI	131.000	pCi/L	UJ
SR-90	UNFI	0.722	pCi/L	UJ	UNFI	0.810	pCi/L	UJ	UNFI	1.820	pCi/L	U
TC-99	UNFI	8.100	pCi/L	UJ	UNFI	10.700	pCi/L	UJ	UNFI	10.900	pCi/L	UJ
TH-228	UNFI	0.134	pCi/L	UJ	UNFI	0.170	pCi/L	UJ	UNFI	0.350	pCi/L	UJ
TH-230	UNFI	0.347	pCi/L	J	UNFI	0.360	pCi/L	U	UNFI	0.110	pCi/L	J
TH-232	UNFI	0.134	pCi/L	UJ	UNFI	0.120	pCi/L	UJ	UNFI	0.100	pCi/L	UJ
TH-TOTAL	UNFI	1.230	ug/L	UJ	UNFI	1.120	ug/L	UJ	UNFI	0.920	ug/L	-
U-234	UNFI	7.830	pCi/L	-	UNFI	0.540	pCi/L	J	UNFI	20.300	pCi/L	-
U-235/236	UNFI	0.479	pCi/L	J	UNFI	0.160	pCi/L	UJ	UNFI	0.060	pCi/L	J
U-238	UNFI	7.910	pCi/L	-	UNFI	0.540	pCi/L	J	UNFI	0.470	pCi/L	-
U-TOTAL	UNFI	18.900	ug/L	-	UNFI	1.360	ug/L	-	UNFI	1.100	ug/L	-

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TABLE F-11A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	11032				11085				1941				
SAMPLING DATE	06/30/93				06/16/93				04/30/93				
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	
CS-137	FILT	13.200	pCi/L	UJ	FILT	18.000	pCi/L	UJ	UNFI	NA	18.400	pCi/L	UJ
CS-137	UNFI	17.300	pCi/L	UJ	UNFI	14.000	pCi/L	UJ	UNFI	NA	NA	-	-
GROSS ALPHA	FILT	8.190	pCi/L	UJ	FILT	12.100	pCi/L	J	UNFI	NA	314.000	pCi/L	J
GROSS ALPHA	UNFI	26.600	pCi/L	UJ	UNFI	198.000	pCi/L	J	UNFI	NA	NA	-	-
GROSS BETA	FILT	6.640	pCi/L	J	FILT	4.850	pCi/L	UJ	UNFI	NA	123.000	pCi/L	J
GROSS BETA	UNFI	67.500	pCi/L	J	UNFI	426.000	pCi/L	J	UNFI	NA	NA	-	-
NP-237	FILT	0.470	pCi/L	U	FILT	0.590	pCi/L	N	UNFI	NA	0.340	pCi/L	U
NP-237	UNFI	3.100	pCi/L	UJ	UNFI	0.265	pCi/L	U	UNFI	NA	0.075	pCi/L	U
PU-238	FILT	0.150	pCi/L	UJ	FILT	0.385	pCi/L	J	UNFI	NA	NA	-	-
PU-238	UNFI	0.190	pCi/L	J	UNFI	0.311	pCi/L	J	UNFI	NA	NA	-	-
PU-239/240	FILT	0.150	pCi/L	U	FILT	0.204	pCi/L	J	UNFI	NA	0.051	pCi/L	UJ
PU-239/240	UNFI	0.080	pCi/L	UJ	UNFI	0.120	pCi/L	J	UNFI	NA	NA	-	-
RA-226	FILT	0.130	pCi/L	UJ	FILT	0.113	pCi/L	UJ	UNFI	NA	1.000	pCi/L	R
RA-226	NA	-	-	-	UNFI	1.360	pCi/L	J	UNFI	NA	NA	-	-
RA-228	FILT	1.180	pCi/L	UJ	FILT	1.430	pCi/L	U	UNFI	NA	3.000	pCi/L	R
RA-228	NA	-	-	-	UNFI	5.450	pCi/L	UJ	UNFI	NA	NA	-	-
RU-106	FILT	132.000	pCi/L	UJ	FILT	143.000	pCi/L	UJ	UNFI	NA	158.000	pCi/L	UJ
RU-106	UNFI	144.000	pCi/L	UJ	UNFI	109.000	pCi/L	UJ	UNFI	NA	NA	-	-
SR-90	FILT	1.330	pCi/L	J	FILT	0.753	pCi/L	UJ	UNFI	NA	3.310	pCi/L	J
SR-90	UNFI	0.500	pCi/L	UJ	UNFI	1.020	pCi/L	UJ	UNFI	NA	NA	-	-
TC-99	FILT	12.000	pCi/L	UJ	FILT	10.200	pCi/L	UJ	UNFI	NA	9.400	pCi/L	UJ
TC-99	UNFI	11.600	pCi/L	UJ	UNFI	10.400	pCi/L	UJ	UNFI	NA	NA	-	-
TH-228	FILT	0.270	pCi/L	UJ	FILT	0.344	pCi/L	UJ	UNFI	NA	0.025	pCi/L	UJ
TH-228	NA	-	-	-	UNFI	9.870	pCi/L	-	UNFI	NA	NA	-	-
TH-230	FILT	0.180	pCi/L	UJ	FILT	2.360	pCi/L	J	UNFI	NA	0.220	pCi/L	J
TH-230	NA	-	-	-	UNFI	11.200	pCi/L	-	UNFI	NA	NA	-	-
TH-232	FILT	0.070	pCi/L	UJ	FILT	0.216	pCi/L	J	UNFI	NA	0.020	pCi/L	UJ
TH-232	NA	-	-	-	UNFI	8.560	pCi/L	-	UNFI	NA	NA	-	-
TH-TOTAL	FILT	0.640	ug/L	UJ	FILT	1.970	ug/L	J	UNFI	NA	0.180	ug/L	UJ
TH-TOTAL	NA	-	-	-	UNFI	78.000	ug/L	-	UNFI	NA	NA	-	-
U-234	FILT	2.620	pCi/L	-	FILT	1.720	pCi/L	-	UNFI	NA	216.000	pCi/L	-
U-234	UNFI	8.720	pCi/L	-	UNFI	7.460	pCi/L	-	UNFI	NA	10.700	pCi/L	-
U-235/236	FILT	0.120	pCi/L	-	FILT	0.139	pCi/L	J	UNFI	NA	NA	-	-
U-235/236	UNFI	0.340	pCi/L	-	UNFI	0.303	pCi/L	J	UNFI	NA	NA	-	-
U-238	FILT	2.430	pCi/L	-	FILT	1.430	pCi/L	-	UNFI	NA	220.000	pCi/L	-
U-238	UNFI	8.870	pCi/L	-	UNFI	7.090	pCi/L	-	UNFI	NA	NA	-	-
U-TOTAL	FILT	6.140	ug/L	J	FILT	4.330	ug/L	-	UNFI	NA	547.000	ug/L	-
U-TOTAL	UNFI	22.600	ug/L	J	UNFI	13.700	ug/L	-	UNFI	NA	NA	-	-

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TABLE F-11A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1941 113316				1942 113000				1942 113319			
SAMPLING DATE	05/28/93				05/01/93				05/28/93			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	UNFI	16.300	pCi/L	UJ	UNFI	12.900	pCi/L	UJ	UNFI	14.800	pCi/L	UJ
GROSS ALPHA	UNFI	609.000	pCi/L	J	UNFI	220.000	pCi/L	J	UNFI	1080.000	pCi/L	J
GROSS BETA	UNFI	314.000	pCi/L	-	UNFI	66.900	pCi/L	J	UNFI	638.000	pCi/L	-
NP-237	UNFI	0.263	pCi/L	R	UNFI	0.395	pCi/L	N	UNFI	0.100	pCi/L	R
PU-238	UNFI	0.326	pCi/L	UJ	UNFI	0.560	pCi/L	J	UNFI	0.082	pCi/L	UJ
PU-239/240	UNFI	0.319	pCi/L	UJ	UNFI	0.088	pCi/L	U	UNFI	0.039	pCi/L	UJ
RA-226	UNFI	1.050	pCi/L	J	UNFI	0.158	pCi/L	UJ	UNFI	1.380	pCi/L	R
RA-228	UNFI	1.190	pCi/L	UJ	UNFI	1.760	pCi/L	UJ	UNFI	1.580	pCi/L	UJ
RU-106	UNFI	100.000	pCi/L	UJ	UNFI	110.000	pCi/L	UJ	UNFI	148.000	pCi/L	UJ
SR-90	UNFI	0.598	pCi/L	UJ	UNFI	3.050	pCi/L	J	UNFI	0.629	pCi/L	UJ
TC-99	UNFI	13.100	pCi/L	UJ	UNFI	8.600	pCi/L	UJ	UNFI	14.100	pCi/L	UJ
TH-228	UNFI	3.870	pCi/L	-	UNFI	0.196	pCi/L	UJ	UNFI	2.210	pCi/L	-
TH-230	UNFI	6.800	pCi/L	-	UNFI	0.265	pCi/L	J	UNFI	3.900	pCi/L	-
TH-232	UNFI	3.750	pCi/L	-	UNFI	0.062	pCi/L	UJ	UNFI	1.770	pCi/L	-
TH-TOTAL	UNFI	34.200	ug/L	-	UNFI	0.569	ug/L	UJ	UNFI	16.200	ug/L	J
U-234	UNFI	166.000	pCi/L	-	UNFI	123.000	pCi/L	-	UNFI	223.000	pCi/L	-
U-235/236	UNFI	8.480	pCi/L	-	UNFI	6.230	pCi/L	-	UNFI	15.700	pCi/L	-
U-238	UNFI	176.000	pCi/L	-	UNFI	125.000	pCi/L	-	UNFI	229.000	pCi/L	-
U-TOTAL	UNFI	388.000	ug/L	-	UNFI	340.000	ug/L	-	UNFI	573.000	ug/L	-

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TABLE F-11A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1954 113798				2014 111992				2046 116233			
SAMPLING DATE	06/22/93				04/30/93				05/11/93			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	FILT	12.800	pCi/L	UJ	UNFI	NA			UNFI	NA		
CS-137	UNFI	14.400	pCi/L	UJ	J	NA			UNFI	11.900	pCi/L	UJ
GROSS ALPHA	FILT	61.000	pCi/L	J	UNFI	NA			UNFI	NA		
GROSS ALPHA	UNFI	38.000	pCi/L	J	UNFI	5.740	pCi/L	UJ	UNFI	319.000	pCi/L	J
GROSS BETA	FILT	18.300	pCi/L	J	UNFI	NA			UNFI	NA		
GROSS BETA	UNFI	41.000	pCi/L	J	UNFI	7.030	pCi/L	J	UNFI	96.600	pCi/L	J
NP-237	FILT	0.110	pCi/L	U	UNFI	NA			UNFI	NA		
NP-237	UNFI	0.177	pCi/L	U	UNFI	0.480	pCi/L	N	UNFI	0.710	pCi/L	N
PU-238	FILT	0.088	pCi/L	UJ	UNFI	NA			UNFI	NA		
PU-238	UNFI	0.091	pCi/L	UJ	UNFI	0.120	pCi/L	U	UNFI	0.152	pCi/L	J
PU-239/240	FILT	0.140	pCi/L	U	UNFI	NA			UNFI	NA		
PU-239/240	UNFI	0.193	pCi/L	J	UNFI	0.055	pCi/L	U	UNFI	0.156	pCi/L	U
RA-226	FILT	0.119	pCi/L	J	UNFI	NA			UNFI	NA		
RA-226	UNFI	1.460	pCi/L	-	UNFI	0.170	pCi/L	J	UNFI	0.487	pCi/L	J
RA-228	FILT	1.160	pCi/L	UJ	UNFI	NA			UNFI	NA		
RA-228	UNFI	1.470	pCi/L	U	UNFI	1.310	pCi/L	UJ	UNFI	3.400	pCi/L	UJ
RU-106	FILT	132.000	pCi/L	UJ	UNFI	NA			UNFI	NA		
RU-106	UNFI	124.000	pCi/L	UJ	UNFI	150.000	pCi/L	UJ	UNFI	115.000	pCi/L	UJ
SR-90	FILT	0.808	pCi/L	UJ	UNFI	NA			UNFI	NA		
SR-90	UNFI	0.767	pCi/L	UJ	UNFI	0.990	pCi/L	UJ	UNFI	0.722	pCi/L	UJ
TC-99	FILT	10.400	pCi/L	UJ	UNFI	NA			UNFI	NA		
TC-99	UNFI	11.400	pCi/L	UJ	UNFI	8.400	pCi/L	UJ	UNFI	8.600	pCi/L	UJ
TH-228	FILT	0.312	pCi/L	UJ	UNFI	NA			UNFI	NA		
TH-228	UNFI	1.100	pCi/L	-	UNFI	0.200	pCi/L	UJ	UNFI	0.294	pCi/L	UJ
TH-230	FILT	0.315	pCi/L	J	UNFI	NA			UNFI	NA		
TH-230	UNFI	1.180	pCi/L	-	UNFI	0.460	pCi/L	J	UNFI	0.186	pCi/L	J
TH-232	FILT	0.292	pCi/L	UJ	UNFI	NA			UNFI	NA		
TH-232	UNFI	0.938	pCi/L	J	UNFI	0.053	pCi/L	UJ	UNFI	0.138	pCi/L	UJ
TH-TOTAL	FILT	2.690	ug/L	UJ	UNFI	NA			UNFI	NA		
TH-TOTAL	UNFI	8.550	ug/L	-	UNFI	0.490	ug/L	UJ	UNFI	1.270	ug/L	UJ
U-234	FILT	27.900	pCi/L	-	UNFI	NA			UNFI	NA		
U-234	UNFI	18.600	pCi/L	-	UNFI	3.490	pCi/L	-	UNFI	160.000	pCi/L	-
U-235/236	FILT	1.720	pCi/L	-	UNFI	NA			UNFI	NA		
U-235/236	UNFI	0.936	pCi/L	J	UNFI	0.220	pCi/L	J	UNFI	8.720	pCi/L	-
U-238	FILT	29.500	pCi/L	-	UNFI	NA			UNFI	NA		
U-238	UNFI	19.100	pCi/L	-	UNFI	3.290	pCi/L	-	UNFI	172.000	pCi/L	-
U-TOTAL	FILT	64.500	ug/L	-	UNFI	NA			UNFI	NA		
U-TOTAL	UNFI	38.900	ug/L	-	UNFI	9.050	ug/L	-	UNFI	423.000	ug/L	-

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TABLE F-11A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2065 112008				2065 113291				2385 111998			
SAMPLING DATE	05/03/93				05/03/93				04/28/93			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137		NA			FILT	15.400	pc ⁻¹ /L	UJ		NA		
CS-137	UNFI	15.500	pc ⁻¹ /L	UJ	FILT	9.400	pc ⁻¹ /L	UJ	UNFI	17.000	pc ⁻¹ /L	UJ
GROSS ALPHA		NA			FILT	NA			UNFI	NA		
GROSS ALPHA	UNFI	10.700	pc ⁻¹ /L	UJ	FILT	6.620	pc ⁻¹ /L	J	UNFI	49.700	pc ⁻¹ /L	J
GROSS BETA		NA			FILT	NA			UNFI	NA		
GROSS BETA	UNFI	6.920	pc ⁻¹ /L	J	FILT	0.255	pc ⁻¹ /L	R	UNFI	25.500	pc ⁻¹ /L	J
NP-237		NA			FILT	NA			UNFI	NA		
NP-237	UNFI	0.331	pc ⁻¹ /L	R	FILT	0.217	pc ⁻¹ /L	UJ	UNFI	0.208	pc ⁻¹ /L	U
PU-238		NA			FILT	NA			UNFI	NA		
PU-238	UNFI	0.690	pc ⁻¹ /L	R	FILT	0.372	pc ⁻¹ /L	UJ	UNFI	0.637	pc ⁻¹ /L	J
PU-239/240		NA			FILT	NA			UNFI	NA		
PU-239/240	UNFI	0.690	pc ⁻¹ /L	R	FILT	0.105	pc ⁻¹ /L	UJ	UNFI	0.089	pc ⁻¹ /L	UJ
RA-226		NA			FILT	NA			UNFI	NA		
RA-226	UNFI	0.183	pc ⁻¹ /L	UJ	FILT	1.890	pc ⁻¹ /L	UJ	UNFI	0.177	pc ⁻¹ /L	UJ
RA-228		NA			FILT	NA			UNFI	NA		
RA-228	UNFI	3.210	pc ⁻¹ /L	UJ	FILT	150.000	pc ⁻¹ /L	UJ	UNFI	3.290	pc ⁻¹ /L	UJ
RU-106		NA			FILT	NA			UNFI	NA		
RU-106	UNFI	105.000	pc ⁻¹ /L	UJ	FILT	6.980	pc ⁻¹ /L	UJ	UNFI	137.000	pc ⁻¹ /L	UJ
SR-90		NA			FILT	NA			UNFI	NA		
SR-90	UNFI	0.718	pc ⁻¹ /L	UJ	FILT	7.900	pc ⁻¹ /L	UJ	UNFI	0.853	pc ⁻¹ /L	UJ
TC-99		NA			FILT	NA			UNFI	NA		
TC-99	UNFI	8.400	pc ⁻¹ /L	UJ	FILT	0.271	pc ⁻¹ /L	UJ	UNFI	9.800	pc ⁻¹ /L	UJ
TH-228		NA			FILT	NA			UNFI	NA		
TH-228	UNFI	3.640	pc ⁻¹ /L	R	FILT	0.323	pc ⁻¹ /L	UJ	UNFI	0.145	pc ⁻¹ /L	UJ
TH-230		NA			FILT	NA			UNFI	NA		
TH-230	UNFI	3.060	pc ⁻¹ /L	R	FILT	0.239	pc ⁻¹ /L	UJ	UNFI	0.211	pc ⁻¹ /L	J
TH-232		NA			FILT	NA			UNFI	NA		
TH-232	UNFI	3.370	pc ⁻¹ /L	R	FILT	2.200	ug/L	UJ	UNFI	0.082	pc ⁻¹ /L	UJ
TH-TOTAL		NA			FILT	NA			UNFI	NA		
TH-TOTAL	UNFI	31.000	ug/L	R	FILT	5.430	pc ⁻¹ /L	-	UNFI	0.750	ug/L	UJ
U-234		NA			FILT	NA			UNFI	NA		
U-234	UNFI	4.810	pc ⁻¹ /L	-	FILT	0.367	pc ⁻¹ /L	UJ	UNFI	33.700	pc ⁻¹ /L	-
U-235/236		NA			FILT	NA			UNFI	NA		
U-235/236	UNFI	0.311	pc ⁻¹ /L	J	FILT	3.390	pc ⁻¹ /L	-	UNFI	1.690	pc ⁻¹ /L	-
U-238		NA			FILT	NA			UNFI	NA		
U-238	UNFI	3.640	pc ⁻¹ /L	-	FILT	9.960	ug/L	-	UNFI	37.100	pc ⁻¹ /L	-
U-TOTAL		NA			FILT	NA			UNFI	NA		
U-TOTAL	UNFI	9.940	ug/L	-					UNFI	98.700	ug/L	-

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TABLE F-11A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2401 116229				2943 113003				2943 113314			
SAMPLING DATE	05/11/93				05/05/93				05/27/93			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	UNFI	12.900	pCi/L	UJ	UNFI	16.800	pCi/L	UJ	UNFI	14.000	pCi/L	UJ
GROSS ALPHA	UNFI	5.320	pCi/L	UJ	UNFI	7.040	pCi/L	UJ	UNFI	9.990	pCi/L	UJ
GROSS BETA	UNFI	4.920	pCi/L	UJ	UNFI	4.940	pCi/L	UJ	UNFI	6.640	pCi/L	UJ
NP-237	UNFI	0.841	pCi/L	N	UNFI	0.150	pCi/L	N	UNFI	0.823	pCi/L	U
PU-238	UNFI	0.256	pCi/L	J	UNFI	0.070	pCi/L	UJ	UNFI	0.075	pCi/L	J
PU-239/240	UNFI	0.220	pCi/L	UJ	UNFI	0.180	pCi/L	UJ	UNFI	0.218	pCi/L	U
RA-226	UNFI	0.374	pCi/L	UJ	UNFI	0.130	pCi/L	J	UNFI	0.275	pCi/L	J
RA-228	UNFI	0.215	pCi/L	UJ	UNFI	1.790	pCi/L	UJ	UNFI	1.040	pCi/L	UJ
RU-106	UNFI	113.000	pCi/L	UJ	UNFI	129.000	pCi/L	UJ	UNFI	137.000	pCi/L	UJ
SR-90	UNFI	0.804	pCi/L	UJ	UNFI	0.620	pCi/L	UJ	UNFI	0.590	pCi/L	UJ
TC-99	UNFI	8.700	pCi/L	UJ	UNFI	11.200	pCi/L	UJ	UNFI	12.000	pCi/L	UJ
TH-228	UNFI	0.202	pCi/L	UJ	UNFI	0.320	pCi/L	UJ	UNFI	0.290	pCi/L	UJ
TH-230	UNFI	0.298	pCi/L	J	UNFI	2.060	pCi/L	-	UNFI	0.258	pCi/L	U
TH-232	UNFI	0.115	pCi/L	UJ	UNFI	0.260	pCi/L	UJ	UNFI	0.140	pCi/L	UJ
TH-TOTAL	UNFI	1.060	ug/L	UJ	UNFI	2.390	ug/L	UJ	UNFI	1.290	ug/L	UJ
U-234	UNFI	1.590	pCi/L	J	UNFI	1.190	pCi/L	-	UNFI	1.230	pCi/L	-
U-235/236	UNFI	0.157	pCi/L	UJ	UNFI	0.710	pCi/L	J	UNFI	0.757	pCi/L	J
U-238	UNFI	1.440	pCi/L	J	UNFI	1.310	pCi/L	-	UNFI	1.100	pCi/L	-
U-TOTAL	UNFI	5.130	ug/L	-	UNFI	2.930	ug/L	-	UNFI	3.000	ug/L	-

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TABLE F-11A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2943 113315 DUPLICATE 05/27/93				2944 113866 06/30/93				2945 112994 04/28/93			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137		NA			FILT	19.500	pct/L	UJ		NA		
CS-137	UNFI	16.000	pct/L	UJ	UNFI	11.100	pct/L	UJ	UNFI	15.100	pct/L	UJ
GROSS ALPHA		NA			FILT	10.200	pct/L	UJ		NA		
GROSS ALPHA	UNFI	8.640	pct/L	UJ	UNFI	6.580	pct/L	UJ	UNFI	1410.000	pct/L	J
GROSS BETA		NA			FILT	12.700	pct/L	J		NA		
GROSS BETA	UNFI	8.370	pct/L	-	UNFI	6.020	pct/L	UJ	UNFI	520.000	pct/L	J
NP-237		NA			FILT	0.420	pct/L	U		NA		
NP-237	UNFI	0.698	pct/L	U	UNFI	0.750	pct/L	U	UNFI	0.796	pct/L	J
PU-238		NA			FILT	0.320	pct/L	UJ		NA		
PU-238	UNFI	0.065	pct/L	J	UNFI	0.090	pct/L	UJ	UNFI	0.114	pct/L	U
PU-239/240		NA			FILT	0.230	pct/L	U		NA		
PU-239/240	UNFI	0.495	pct/L	U	UNFI	0.180	pct/L	UJ	UNFI	0.166	pct/L	U
RA-226		NA			FILT	0.160	pct/L	UJ		NA		
RA-226	UNFI	0.163	pct/L	J	UNFI	0.220	pct/L	UJ	UNFI	0.300	pct/L	J
RA-228		NA			FILT	1.140	pct/L	UJ		NA		
RA-228	UNFI	1.550	pct/L	UJ	UNFI	1.710	pct/L	UJ	UNFI	1.370	pct/L	UJ
RU-106		NA			FILT	110.000	pct/L	UJ		NA		
RU-106	UNFI	139.000	pct/L	UJ	UNFI	12.300	pct/L	UJ	UNFI	77.000	pct/L	UJ
SR-90		NA			FILT	0.660	pct/L	UJ		NA		
SR-90	UNFI	0.620	pct/L	UJ	UNFI	0.650	pct/L	UJ	UNFI	0.844	pct/L	UJ
TC-99		NA			FILT	11.500	pct/L	UJ		NA		
TC-99	UNFI	12.100	pct/L	UJ	UNFI	11.700	pct/L	UJ	UNFI	9.100	pct/L	UJ
TH-228		NA			FILT	0.380	pct/L	UJ		NA		
TH-228	UNFI	0.320	pct/L	UJ	UNFI	0.520	pct/L	UJ	UNFI	0.082	pct/L	UJ
TH-230		NA			FILT	0.320	pct/L	UJ		NA		
TH-230	UNFI	0.232	pct/L	J	UNFI	0.440	pct/L	UJ	UNFI	0.464	pct/L	J
TH-232		NA			FILT	0.240	pct/L	UJ		NA		
TH-232	UNFI	0.072	pct/L	UJ	UNFI	0.150	pct/L	UJ	UNFI	0.044	pct/L	J
TH-TOTAL		NA			FILT	2.160	ug/L	UJ		NA		
TH-TOTAL	UNFI	0.662	ug/L	UJ	UNFI	1.380	ug/L	UJ	UNFI	0.398	ug/L	J
U-234		NA			FILT	0.670	pct/L	-		NA		
U-234	UNFI	0.892	pct/L	J	UNFI	0.830	pct/L	-	UNFI	662.000	pct/L	-
U-235/236		NA			FILT	0.140	pct/L	UJ		NA		
U-235/236	UNFI	0.150	pct/L	UJ	UNFI	0.150	pct/L	UJ	UNFI	31.700	pct/L	-
U-238		NA			FILT	0.440	pct/L	J		NA		
U-238	UNFI	1.250	pct/L	-	UNFI	0.760	pct/L	-	UNFI	707.000	pct/L	-
U-TOTAL		NA			FILT	1.520	ug/L	-		NA		
U-TOTAL	UNFI	3.200	ug/L	-	UNFI	1.670	ug/L	-	UNFI	2070.000	ug/L	-

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TABLE F-11A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	2945 113313				2954 113795			
SAMPLE NUMBER	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137		NA			FILT	14.700	pCi/L	UJ
CS-137	UNFI	16.000	pCi/L	UJ	UNFI	17.700	pCi/L	UJ
GROSS ALPHA		NA			FILT	553.000	pCi/L	J
GROSS ALPHA	UNFI	1120.000	pCi/L	J	UNFI	781.000	pCi/L	J
GROSS BETA		NA			FILT	150.000	pCi/L	J
GROSS BETA	UNFI	411.000	pCi/L	-	UNFI	158.000	pCi/L	J
NP-237		NA			FILT	0.698	pCi/L	N
NP-237	UNFI	0.962	pCi/L	J	UNFI	0.919	pCi/L	R
PU-238		NA			FILT	0.107	pCi/L	UJ
PU-238	UNFI	0.082	pCi/L	UJ	UNFI	0.044	pCi/L	UJ
PU-239/240		NA			FILT	0.103	pCi/L	U
PU-239/240	UNFI	0.436	pCi/L	U	UNFI	0.044	pCi/L	UJ
RA-226		NA			FILT	0.712	pCi/L	J
RA-226	UNFI	0.536	pCi/L	J	UNFI	0.219	pCi/L	J
RA-228		NA			FILT	1.600	pCi/L	UJ
RA-228	UNFI	1.350	pCi/L	UJ	UNFI	1.190	pCi/L	UJ
RU-106		NA			FILT	111.000	pCi/L	UJ
RU-106	UNFI	98.000	pCi/L	UJ	UNFI	132.000	pCi/L	UJ
SR-90		NA			FILT	1.170	pCi/L	J
SR-90	UNFI	0.700	pCi/L	UJ	UNFI	0.813	pCi/L	UJ
TC-99		NA			FILT	10.200	pCi/L	UJ
TC-99	UNFI	12.000	pCi/L	UJ	UNFI	10.100	pCi/L	UJ
TH-228		NA			FILT	0.199	pCi/L	UJ
TH-228	UNFI	0.240	pCi/L	UJ	UNFI	0.207	pCi/L	UJ
TH-230		NA			FILT	0.253	pCi/L	J
TH-230	UNFI	0.469	pCi/L	J	UNFI	0.300	pCi/L	J
TH-232		NA			FILT	0.114	pCi/L	UJ
TH-232	UNFI	0.160	pCi/L	UJ	UNFI	0.136	pCi/L	UJ
TH-TOTAL		NA			FILT	1.050	ug/L	UJ
TH-TOTAL	UNFI	1.470	mg/kg	UJ	UNFI	1.250	ug/L	UJ
U-234		NA			FILT	357.500	pCi/L	-
U-234	UNFI	719.000	pCi/L	R	UNFI	372.000	pCi/L	-
U-235/236		NA			FILT	15.700	pCi/L	-
U-235/236	UNFI	35.400	pCi/L	R	UNFI	15.600	pCi/L	-
U-238		NA			FILT	381.000	pCi/L	-
U-238	UNFI	729.000	pCi/L	R	UNFI	384.000	pCi/L	-
U-TOTAL		NA			FILT	1129.000	ug/L	-
U-TOTAL	UNFI	1820.000	mg/kg	-	UNFI	1167.000	ug/L	-

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1046				1046				1065				
SAMPLE NUMBER	113312				116231				112013				
SAMPLING DATE	05/28/93				05/11/93				05/04/93				
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	
<u>Inorganics</u>													
Aluminum		NA				UNFI	2.410	mg/L	C	-	UNFI	0.774	mg/L
Antimony		NA				UNFI	0.005	mg/L	C	UJ	UNFI	0.004	mg/L
Arsenic		NA				UNFI	0.002	mg/L	C	U	UNFI	0.001	mg/L
Barium		NA				UNFI	0.073	mg/L	C	-	UNFI	0.049	mg/L
Beryllium		NA				UNFI	0.001	mg/L	C	U	UNFI	0.001	mg/L
Cadmium		NA				UNFI	0.002	mg/L	C	U	UNFI	0.034	mg/L
Calcium		NA				UNFI	123.000	mg/L	C	-	UNFI	106.000	mg/L
Chromium		NA				UNFI	0.006	mg/L	C	-	UNFI	0.005	mg/L
Cobalt		NA				UNFI	0.003	mg/L	C	U	UNFI	0.003	mg/L
Copper		NA				UNFI	0.012	mg/L	C	U	UNFI	0.010	mg/L
Cyanide		NA				UNFI	0.001	mg/L	C	U	UNFI	0.001	mg/L
Iron		NA				UNFI	5.480	mg/L	C	-	UNFI	1.820	mg/L
Lead		NA				UNFI	0.003	mg/L	C	-	UNFI	0.002	mg/L
Magnesium		NA				UNFI	49.500	mg/L	C	-	UNFI	35.500	mg/L
Manganese		NA				UNFI	0.169	mg/L	C	-	UNFI	0.056	mg/L
Mercury		NA				UNFI	0.000	mg/L	C	U	UNFI	0.000	mg/L
Molybdenum		NA				UNFI	0.003	mg/L	C	U	UNFI	0.004	mg/L
Nickel		NA				UNFI	0.009	mg/L	C	-	UNFI	0.007	mg/L
Potassium		NA				UNFI	1.420	mg/L	C	-	UNFI	0.894	mg/L
Selenium		NA				UNFI	0.001	mg/L	C	UJ	UNFI	0.001	mg/L
Silicon		NA				UNFI	9.140	mg/L	C	-	UNFI	6.610	mg/L
Silver		NA				UNFI	0.002	mg/L	C	U	UNFI	0.002	mg/L
Sodium		NA				UNFI	10.800	mg/L	C	-	UNFI	8.810	mg/L
Thallium		NA				UNFI	0.001	mg/L	C	U	UNFI	0.001	mg/L
Vanadium		NA				UNFI	0.014	mg/L	C	U	UNFI	0.010	mg/L
Zinc		NA				UNFI	0.019	mg/L	C	-	UNFI	0.122	mg/L
<u>Volatile Organics</u>													
1,1,1-Trichloroethane	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L
1,1,2,2-Tetrachloroethane	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L
1,1,2-Trichloroethane	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L
1,1-Dichloroethane	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L
1,1-Dichloroethene	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L
1,2-Dichloroethane	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L
1,2-Dichloroethene	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L
1,2-Dichloropropane	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L
2-Butanone	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L
2-Hexanone	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L
4-Methyl-2-pentanone	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L
Acetone	UNFI	10.000	ug/L	C	U	NA					UNFI	16.000	ug/L
Benzene	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1046	1046	1065			
SAMPLE NUMBER	113312	116231	112013			
SAMPLING DATE	05/28/93	05/11/93	05/04/93			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Volatile Organics</u>						
Bromodichloromethane	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Bromoform	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Bromomethane	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Carbon Tetrachloride	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Carbon disulfide	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C UJ
Chlorobenzene	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Chloroethane	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C UJ
Chloroform	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Chloromethane	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C R
Dibromochloromethane	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Ethylbenzene	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Methylene chloride	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C UJ
Styrene	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Tetrachloroethene	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Toluene	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Trichloroethene	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Vinyl Acetate	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C UJ
Vinyl chloride	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C UJ
Xylenes, Total	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
cis-1,3-Dichloropropene	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
trans-1,3-Dichloropropene	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	NA		UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U
1,2-Dichlorobenzene	NA		UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U
1,3-Dichlorobenzene	NA		UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U
1,4-Dichlorobenzene	NA		UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U
2,4,5-Trichlorophenol	NA		UNFI	25.000 ug/L C U	UNFI	25.000 ug/L C U
2,4,6-Trichlorophenol	NA		UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U
2,4-Dichlorophenol	NA		UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U
2,4-Dimethylphenol	NA		UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U
2,4-Dinitrophenol	NA		UNFI	25.000 ug/L C U	UNFI	25.000 ug/L C R
2,4-Dinitrotoluene	NA		UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U
2,6-Dinitrotoluene	NA		UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U
2-Chloronaphthalene	NA		UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U
2-Chlorophenol	NA		UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U
2-Methylnaphthalene	NA		UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U
2-Methylphenol	NA		UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U
2-Nitroaniline	NA		UNFI	25.000 ug/L C U	UNFI	25.000 ug/L C U
2-Nitrophenol	NA		UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U
3,3'-Dichlorobenzidine	NA		UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1046	1046				1065					
SAMPLE NUMBER	113312	116231				112013					
SAMPLING DATE	05/28/93	05/11/93				05/04/93					
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Semivolatile Organics</u>											
3-Nitroaniline	NA	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U
4,6-Dinitro-2-methylphenol	NA	UNFI	25.000	ug/L	C	R	UNFI	25.000	ug/L	C	U
4-Bromophenyl phenyl ether	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
4-Chloro-3-methylphenol	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
4-Chlorophenylphenyl ether	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
4-Methylphenol	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
4-Nitroaniline	NA	UNFI	25.000	ug/L	C	R	UNFI	25.000	ug/L	C	U
4-Nitrophenol	NA	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U
Acenaphthene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Acenaphthylene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Anthracene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(a)anthracene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(a)pyrene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(b)fluoranthene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(g,h,i)perylene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(k)fluoranthene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzoic acid	NA	UNFI	50.000	ug/L	C	U	UNFI	50.000	ug/L	C	R
Benzyl alcohol	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Butyl benzyl phthalate	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Carbazole	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Chrysene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Di-n-butyl phthalate	NA	UNFI	4.000	ug/L	C	J	UNFI	10.000	ug/L	C	U
Di-n-octyl phthalate	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	R
Dibenzo(a,h)anthracene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Dibenzofuran	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Diethyl phthalate	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Dimethyl phthalate	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Fluoranthene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Fluorene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Hexachlorobenzene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Hexachlorobutadiene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Hexachlorocyclopentadiene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Hexachloroethane	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Indeno(1,2,3-cd)pyrene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Isophorone	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
N-Nitroso-di-n-propylamine	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
N-Nitrosodiphenylamine	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Naphthalene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Nitrobenzene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Pentachlorophenol	NA	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U
Phenanthrene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Phenol	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1046	1046	1065				
SAMPLE NUMBER	113312	116231	112013				
SAMPLING DATE	05/28/93	05/11/93	05/04/93				
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	
<u>Semivolatile Organics</u>							
Pyrene	NA		UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U	
bis(2-Chloroethoxy)methane	NA		UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U	
bis(2-Chloroethyl)ether	NA		UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U	
bis(2-Chloroisopropyl) ether	NA		UNFI	10.000 ug/L C UJ	UNFI	10.000 ug/L C U	
bis(2-Ethylhexyl) phthalate	NA		UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C UJ	
p-Chloroaniline	NA		UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U	
<u>Pesticide Organics/PCBs</u>							
4,4'-DDD	NA		UNFI	0.100 ug/L C U	UNFI	0.100 ug/L C U	
4,4'-DDE	NA		UNFI	0.100 ug/L C U	UNFI	0.100 ug/L C U	
4,4'-DDT	NA		UNFI	0.100 ug/L C U	UNFI	0.100 ug/L C UJ	
Aldrin	NA		UNFI	0.050 ug/L C U	UNFI	0.050 ug/L C U	
Aroclor-1016	NA		UNFI	1.000 ug/L C U	UNFI	1.000 ug/L C U	
Aroclor-1221	NA		UNFI	2.000 ug/L C U	UNFI	2.000 ug/L C U	
Aroclor-1232	NA		UNFI	1.000 ug/L C U	UNFI	1.000 ug/L C U	
Aroclor-1242	NA		UNFI	1.000 ug/L C U	UNFI	1.000 ug/L C U	
Aroclor-1248	NA		UNFI	1.000 ug/L C U	UNFI	1.000 ug/L C U	
Aroclor-1254	NA		UNFI	1.000 ug/L C U	UNFI	1.000 ug/L C U	
Aroclor-1260	NA		UNFI	1.000 ug/L C U	UNFI	1.000 ug/L C U	
Dieldrin	NA		UNFI	0.100 ug/L C U	UNFI	0.100 ug/L C U	
Endosulfan II	NA		UNFI	0.100 ug/L C U	UNFI	0.100 ug/L C U	
Endosulfan sulfate	NA		UNFI	0.100 ug/L C U	UNFI	0.100 ug/L C U	
Endosulfan-I	NA		UNFI	0.050 ug/L C U	UNFI	0.050 ug/L C U	
Endrin	NA		UNFI	0.100 ug/L C U	UNFI	0.100 ug/L C U	
Endrin aldehyde	NA		UNFI	0.100 ug/L C U	UNFI	0.100 ug/L C U	
Endrin ketone	NA		UNFI	0.100 ug/L C U	UNFI	0.100 ug/L C U	
Heptachlor	NA		UNFI	0.050 ug/L C U	UNFI	0.050 ug/L C U	
Heptachlor epoxide	NA		UNFI	0.050 ug/L C U	UNFI	0.050 ug/L C U	
Methoxychlor	NA		UNFI	0.500 ug/L C U	UNFI	0.500 ug/L C U	
Toxaphene	NA		UNFI	5.000 ug/L C U	UNFI	5.000 ug/L C U	
alpha-BHC	NA		UNFI	0.050 ug/L C U	UNFI	0.050 ug/L C U	
alpha-Chlordane	NA		UNFI	0.050 ug/L C U	UNFI	0.050 ug/L C U	
beta-BHC	NA		UNFI	0.050 ug/L C U	UNFI	0.050 ug/L C U	
delta-BHC	NA		UNFI	0.050 ug/L C U	UNFI	0.050 ug/L C U	
gamma-BHC (Lindane)	NA		UNFI	0.050 ug/L C U	UNFI	0.050 ug/L C UJ	
gamma-Chlordane	NA		UNFI	0.050 ug/L C U	UNFI	0.050 ug/L C U	
<u>General Chemistry</u>							
Alkalinity	NA		UNFI	349.000 mg/L B -	UNFI	360.000 mg/L B -	
Ammonia	UNFI	0.100 mg/L C U	NA		UNFI	0.100 mg/L B U	

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0000826

TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1046	1046	1065			
SAMPLE NUMBER	113312	116231	112013			
SAMPLING DATE	05/28/93	05/11/93	05/04/93			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>General Chemistry</u>						
Chloride	NA		UNFI	2.500 mg/L B -	UNFI	2.770 mg/L B -
Fluoride	NA		UNFI	0.290 mg/L B -	UNFI	0.230 mg/L B -
Nitrate	NA		UNFI	0.340 mg/L B U	UNFI	0.100 mg/L B R
Phenols	NA		UNFI	0.010 mg/L B U	UNFI	0.010 mg/L B U
Sulfate	NA		UNFI	57.720 mg/L B -	UNFI	71.700 mg/L B -
Sulfide	NA		UNFI	0.500 mg/L B U	UNFI	0.500 mg/L B U
Total Kjeldahl Nitrogen	NA		NA		UNFI	0.340 mg/L B -
Total Organic Carbon	UNFI	1.100 mg/L C -	NA		UNFI	1.150 mg/L B -
Total Organic Halides	NA		UNFI	0.010 mg/L B U	UNFI	0.011 mg/L B UJ
Total Organic Nitrogen	UNFI	0.190 mg/L C -	NA		UNFI	0.340 mg/L B -
Total Phosphorous	UNFI	0.130 mg/L C UJ	UNFI	0.120 mg/L B -	UNFI	0.080 mg/L B -

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1065 112014				11032 113869				11085 113792			
SAMPLING DATE	05/04/93				06/30/93				06/16/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Inorganics</u>												
Aluminum	FILT	0.069	mg/L	C U	FILT	0.435	mg/L	C -	FILT	0.196	mg/L	C U
Aluminum	UNFI	NA			UNFI	130.000	mg/L	C -	UNFI	184.000	mg/L	C -
Antimony	FILT	0.014	mg/L	C J	FILT	0.006	mg/L	C J	FILT	0.007	mg/L	C -
Antimony	UNFI	NA			UNFI	0.005	mg/L	C J	UNFI	0.005	mg/L	C C
Arsenic	FILT	0.001	mg/L	C U	FILT	0.002	mg/L	C J	FILT	0.002	mg/L	C C
Arsenic	UNFI	NA			UNFI	0.008	mg/L	C J	UNFI	0.007	mg/L	C C
Barium	FILT	0.047	mg/L	C -	FILT	0.088	mg/L	C -	FILT	0.078	mg/L	C C
Barium	UNFI	NA			UNFI	1.050	mg/L	C -	UNFI	1.140	mg/L	C C
Beryllium	FILT	0.001	mg/L	C U	FILT	0.002	mg/L	C -	FILT	0.002	mg/L	C C
Beryllium	UNFI	NA			UNFI	0.006	mg/L	C -	UNFI	0.010	mg/L	C C
Cadmium	FILT	0.002	mg/L	C U	FILT	0.005	mg/L	C -	FILT	0.005	mg/L	C C
Cadmium	UNFI	NA			UNFI	0.006	mg/L	C -	UNFI	0.005	mg/L	C C
Calcium	FILT	108.000	mg/L	C -	FILT	87.300	mg/L	C -	FILT	109.000	mg/L	C -
Calcium	UNFI	NA			UNFI	1360.000	mg/L	C -	UNFI	1190.000	mg/L	C C
Chromium	FILT	0.004	mg/L	C U	FILT	0.010	mg/L	C R	FILT	0.010	mg/L	C C
Chromium	UNFI	NA			UNFI	0.167	mg/L	C R	UNFI	0.196	mg/L	C C
Cobalt	FILT	0.003	mg/L	C U	FILT	0.010	mg/L	C R	FILT	0.010	mg/L	C C
Cobalt	UNFI	NA			UNFI	0.069	mg/L	C R	UNFI	0.116	mg/L	C C
Copper	FILT	0.009	mg/L	C U	FILT	0.010	mg/L	C -	FILT	0.010	mg/L	C C
Copper	UNFI	NA			UNFI	0.246	mg/L	C -	UNFI	0.332	mg/L	C C
Cyanide	UNFI	0.001	mg/L	C R	UNFI	0.002	mg/L	C -	NA			
Iron	FILT	0.091	mg/L	C U	FILT	0.334	mg/L	C -	FILT	0.025	mg/L	C -
Iron	UNFI	NA			UNFI	265.000	mg/L	C -	UNFI	370.000	mg/L	C -
Lead	FILT	0.001	mg/L	C U	FILT	0.002	mg/L	C -	FILT	0.002	mg/L	C C
Lead	UNFI	NA			UNFI	0.083	mg/L	C -	UNFI	0.099	mg/L	C C
Magnesium	FILT	37.900	mg/L	C -	FILT	57.400	mg/L	C -	FILT	42.100	mg/L	C -
Magnesium	UNFI	NA			UNFI	413.000	mg/L	C -	UNFI	384.000	mg/L	C -
Manganese	FILT	0.004	mg/L	C U	FILT	0.274	mg/L	C -	FILT	0.016	mg/L	C -
Manganese	UNFI	NA			UNFI	4.920	mg/L	C -	UNFI	6.490	mg/L	C C
Mercury	FILT	0.000	mg/L	C U	FILT	0.000	mg/L	C -	FILT	0.000	mg/L	C C
Mercury	UNFI	NA			UNFI	0.000	mg/L	C -	UNFI	0.000	mg/L	C C
Molybdenum	FILT	0.003	mg/L	C U	FILT	0.020	mg/L	C -	FILT	0.010	mg/L	C C
Molybdenum	UNFI	NA			UNFI	0.049	mg/L	C -	UNFI	0.108	mg/L	C C
Nickel	FILT	0.003	mg/L	C U	FILT	0.020	mg/L	C -	FILT	0.020	mg/L	C C
Nickel	UNFI	NA			UNFI	0.243	mg/L	C -	UNFI	0.339	mg/L	C C
Potassium	FILT	0.632	mg/L	C U	FILT	1.330	mg/L	C -	FILT	1.180	mg/L	C C
Potassium	UNFI	NA			UNFI	21.300	mg/L	C -	UNFI	27.400	mg/L	C C
Selenium	FILT	0.001	mg/L	C U	FILT	0.002	mg/L	C J	FILT	0.002	mg/L	C C
Selenium	UNFI	NA			UNFI	0.002	mg/L	C J	UNFI	0.010	mg/L	C C
Silicon	FILT	5.670	mg/L	C -	FILT	8.200	mg/L	C -	FILT	7.450	mg/L	C C
Silicon	UNFI	NA			UNFI	83.400	mg/L	C -	UNFI	78.600	mg/L	C C
Silver	FILT	0.002	mg/L	C U	FILT	0.010	mg/L	C J	FILT	0.010	mg/L	C C

TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1065	11032				11085			
SAMPLE NUMBER	112014	113869				113792			
SAMPLING DATE	05/04/93	06/30/93				06/16/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L
<u>Inorganics</u>									
Silver		NA				UNFI	0.061	mg/L	C
Sodium	FILT	8.040	mg/L	C	-	FILT	12.500	mg/L	C
Sodium		NA				UNFI	12.800	mg/L	C
Thallium	FILT	0.001	mg/L	C	U	FILT	0.002	mg/L	C
Thallium		NA				UNFI	0.002	mg/L	C
Vanadium	FILT	0.007	mg/L	C	U	FILT	0.010	mg/L	C
Vanadium		NA				UNFI	0.319	mg/L	C
Zinc	FILT	0.037	mg/L	C	-	FILT	0.005	mg/L	C
Zinc		NA				UNFI	0.654	mg/L	C
<u>Volatile Organics</u>									
1,1,1-Trichloroethane		NA				UNFI	10.000	ug/L	C
1,1,2,2-Tetrachloroethane		NA				UNFI	10.000	ug/L	C
1,1,2-Trichloroethane		NA				UNFI	10.000	ug/L	C
1,1-Dichloroethane		NA				UNFI	10.000	ug/L	C
1,1-Dichloroethene		NA				UNFI	10.000	ug/L	C
1,2-Dichloroethane		NA				UNFI	10.000	ug/L	C
1,2-Dichloroethene		NA				UNFI	10.000	ug/L	C
1,2-Dichloropropane		NA				UNFI	10.000	ug/L	C
2-Butanone		NA				UNFI	10.000	ug/L	C
2-Hexanone		NA				UNFI	10.000	ug/L	C
4-Methyl-2-pentanone		NA				UNFI	10.000	ug/L	C
Acetone		NA				UNFI	6.000	ug/L	C
Benzene		NA				UNFI	10.000	ug/L	C
Bromodichloromethane		NA				UNFI	10.000	ug/L	C
Bromoform		NA				UNFI	10.000	ug/L	C
Bromomethane		NA				UNFI	10.000	ug/L	C
Carbon Tetrachloride		NA				UNFI	10.000	ug/L	C
Carbon disulfide		NA				UNFI	10.000	ug/L	C
Chlorobenzene		NA				UNFI	10.000	ug/L	C
Chloroethane		NA				UNFI	10.000	ug/L	C
Chloroform		NA				UNFI	10.000	ug/L	C
Chloromethane		NA				UNFI	10.000	ug/L	C
Dibromochloromethane		NA				UNFI	10.000	ug/L	C
Ethylbenzene		NA				UNFI	10.000	ug/L	C
Methylene chloride		NA				UNFI	10.000	ug/L	C
Styrene		NA				UNFI	10.000	ug/L	C
Tetrachloroethene		NA				UNFI	10.000	ug/L	C
Toluene		NA				UNFI	10.000	ug/L	C
Trichloroethene		NA				UNFI	10.000	ug/L	C
Vinyl chloride		NA				UNFI	10.000	ug/L	C

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1065 112014	11032 113869	11085 113792			
SAMPLING DATE	05/04/93	06/30/93	06/16/93			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Volatile Organics</u>						
Xylenes, Total	NA	UNFI 10.000 ug/L C U				
cis-1,3-Dichloropropene	NA	UNFI 10.000 ug/L C U				
trans-1,3-Dichloropropene	NA	UNFI 10.000 ug/L C U				
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	NA	UNFI 10.000 ug/L C U				
1,2-Dichlorobenzene	NA	UNFI 10.000 ug/L C U				
1,3-Dichlorobenzene	NA	UNFI 10.000 ug/L C U				
1,4-Dichlorobenzene	NA	UNFI 10.000 ug/L C U				
2,4,5-Trichlorophenol	NA	UNFI 25.000 ug/L C U				
2,4,6-Trichlorophenol	NA	UNFI 10.000 ug/L C U				
2,4-Dichlorophenol	NA	UNFI 10.000 ug/L C U				
2,4-Dimethylphenol	NA	UNFI 10.000 ug/L C U				
2,4-Dinitrophenol	NA	UNFI 25.000 ug/L C U				
2,4-Dinitrotoluene	NA	UNFI 10.000 ug/L C U				
2,6-Dinitrotoluene	NA	UNFI 10.000 ug/L C U				
2-Benzyl-4-chlorophenol	NA	UNFI 10.000 ug/L C U				
2-Chloronaphthalene	NA	UNFI 10.000 ug/L C U				
2-Chlorophenol	NA	UNFI 10.000 ug/L C U				
2-Methylnaphthalene	NA	UNFI 10.000 ug/L C U				
2-Methylphenol	NA	UNFI 10.000 ug/L C U				
2-Nitroaniline	NA	UNFI 25.000 ug/L C U				
2-Nitrophenol	NA	UNFI 10.000 ug/L C U				
3,3'-Dichlorobenzidine	NA	UNFI 10.000 ug/L C U				
3-Nitroaniline	NA	UNFI 25.000 ug/L C U				
4,6-Dinitro-2-methylphenol	NA	UNFI 25.000 ug/L C U				
4-Bromophenyl phenyl ether	NA	UNFI 10.000 ug/L C U				
4-Chloro-3-methylphenol	NA	UNFI 10.000 ug/L C U				
4-Chlorophenylphenyl ether	NA	UNFI 10.000 ug/L C U				
4-Methylphenol	NA	UNFI 10.000 ug/L C U				
4-Nitroaniline	NA	UNFI 25.000 ug/L C U				
4-Nitrophenol	NA	UNFI 25.000 ug/L C U				
Acenaphthene	NA	UNFI 10.000 ug/L C U				
Acenaphthylene	NA	UNFI 10.000 ug/L C U				
Anthracene	NA	UNFI 10.000 ug/L C U				
Benzo(a)anthracene	NA	UNFI 10.000 ug/L C U				
Benzo(a)pyrene	NA	UNFI 10.000 ug/L C U				
Benzo(b)fluoranthene	NA	UNFI 10.000 ug/L C U				
Benzo(g,h,i)perylene	NA	UNFI 10.000 ug/L C U				
Benzo(k)fluoranthene	NA	UNFI 10.000 ug/L C U				
Benzoic acid	NA	UNFI 50.000 ug/L C U				

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1065	11032				11085					
SAMPLE NUMBER	112014	113869				113792					
SAMPLING DATE	05/04/93	06/30/93				06/16/93					
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Semivolatile Organics</u>											
Benzyl alcohol	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Butyl benzyl phthalate	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Carbazole	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Chrysene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Di-n-butyl phthalate	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Di-n-octyl phthalate	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Dibenzo(a,h)anthracene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Dibenzofuran	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Diethyl phthalate	NA	UNFI	1.000	ug/L	C	J	UNFI	10.000	ug/L	C	U
Dimethyl phthalate	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Fluoranthene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Fluorene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Hexachlorobenzene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Hexachlorobutadiene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Hexachlorocyclopentadiene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Hexachloroethane	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Indeno(1,2,3-cd)pyrene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Isophorone	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
N-Nitroso-di-n-propylamine	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
N-Nitrosodimethylamine	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
N-Nitrosodiphenylamine	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Naphthalene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Nitrobenzene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Pentachlorophenol	NA	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U
Phenanthrene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Phenol	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Pyrene	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Tributyl phosphate	NA	UNFI	1.000	ug/L	C	J	UNFI	10.000	ug/L	C	U
bis(2-Chloroethoxy)methane	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
bis(2-Chloroethyl)ether	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
bis(2-Chloroisopropyl) ether	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
bis(2-Ethylhexyl) phthalate	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
p-Chloroaniline	NA	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
<u>Pesticide Organics/PCBs</u>											
4,4'-DDD	NA	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
4,4'-DDE	NA	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
4,4'-DDT	NA	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Aldrin	NA	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
Aroclor-1016	NA	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U
Aroclor-1221	NA	UNFI	2.000	ug/L	C	U	UNFI	2.000	ug/L	C	U

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1065	11032				11085					
SAMPLE NUMBER	112014	113869				113792					
SAMPLING DATE	05/04/93	06/30/93				06/16/93					
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L		
<u>Pesticide Organics/PCBs</u>											
Aroclor-1232	NA	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U
Aroclor-1242	NA	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U
Aroclor-1248	NA	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U
Aroclor-1254	NA	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U
Aroclor-1260	NA	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U
Dieldrin	NA	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Endosulfan II	NA	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Endosulfan sulfate	NA	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Endosulfan-I	NA	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
Endrin	NA	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Endrin aldehyde	NA	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Endrin ketone	NA	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Heptachlor	NA	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
Heptachlor epoxide	NA	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
Methoxychlor	NA	UNFI	0.500	ug/L	C	U	UNFI	0.500	ug/L	C	U
Toxaphene	NA	UNFI	5.000	ug/L	C	U	UNFI	5.000	ug/L	C	U
alpha-BHC	NA	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
alpha-Chlordane	NA	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
beta-BHC	NA	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
delta-BHC	NA	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
gamma-BHC (Lindane)	NA	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
gamma-Chlordane	NA	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
<u>General Chemistry</u>											
Alkalinity	NA	UNFI	394.000	mg/L	B	-	UNFI	380.500	mg/L	B	-
Ammonia	NA	UNFI	0.260	mg/L	B	J	UNFI	0.110	mg/L	B	-
Chloride	NA	UNFI	8.890	mg/L	B	-	UNFI	6.780	mg/L	B	-
Fluoride	NA	UNFI	0.640	mg/L	B	-	UNFI	0.430	mg/L	B	-
Nitrate	NA	UNFI	0.260	mg/L	B	J	UNFI	0.520	mg/L	B	J
Phenols	NA	UNFI	0.010	mg/L	B	U	UNFI	0.010	mg/L	B	U
Sulfate	NA	UNFI	65.500	mg/L	B	-	UNFI	85.600	mg/L	B	-
Sulfide	NA	UNFI	0.500	mg/L	B	U	UNFI	0.500	mg/L	B	U
Total Kjeldahl Nitrogen	NA	UNFI	3.320	mg/L	B	-	UNFI	4.610	mg/L	B	-
Total Organic Carbon	NA	UNFI	1.790	mg/L	B	J	UNFI	1.300	mg/L	B	-
Total Organic Halides	NA	UNFI	0.010	mg/L	B	U	UNFI	0.021	mg/L	B	-
Total Organic Nitrogen	NA	UNFI	3.060	mg/L	B	J	UNFI	4.500	mg/L	B	-
Total Phosphorous	NA	UNFI	8.760	mg/L	B	-	UNFI	12.110	mg/L	B	-

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1941				1941				1942						
SAMPLE NUMBER	112997				113316				113000						
SAMPLING DATE	04/30/93				05/28/93				05/01/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS			
<u>Inorganics</u>															
Aluminum	UNFI	0.069	mg/L	C	-	UNFI	86.100	mg/L	C	-	UNFI	0.084	mg/L	D	-
Antimony	UNFI	0.013	mg/L	C	J	UNFI	0.006	mg/L	C	J	UNFI	0.006	mg/L	D	UJ
Arsenic	UNFI	0.001	mg/L	C	U	UNFI	0.005	mg/L	C	J	UNFI	0.001	mg/L	D	U
Barium	UNFI	0.072	mg/L	C	J	UNFI	0.565	mg/L	C	-	UNFI	0.090	mg/L	D	J
Beryllium	UNFI	0.002	mg/L	C	U	UNFI	0.004	mg/L	C	-	UNFI	0.002	mg/L	D	U
Cadmium	UNFI	0.002	mg/L	C	U	UNFI	0.005	mg/L	C	UJ	UNFI	0.002	mg/L	D	U
Calcium	UNFI	102.000	mg/L	C	-	UNFI	610.000	mg/L	C	-	UNFI	143.000	mg/L	D	-
Chromium	UNFI	0.004	mg/L	C	U	UNFI	0.090	mg/L	C	J	UNFI	0.004	mg/L	D	U
Cobalt	UNFI	0.003	mg/L	C	U	UNFI	0.033	mg/L	C	-	UNFI	0.003	mg/L	D	-
Copper	UNFI	0.004	mg/L	C	U	UNFI	0.120	mg/L	C	-	UNFI	0.002	mg/L	D	U
Cyanide	UNFI	0.002	mg/L	C	-	NA				UNFI	0.002	mg/L	D	-	
Iron	UNFI	0.025	mg/L	C	U	UNFI	131.000	mg/L	C	-	UNFI	0.019	mg/L	D	U
Lead	UNFI	0.001	mg/L	C	U	UNFI	0.034	mg/L	C	-	UNFI	0.001	mg/L	D	U
Magnesium	UNFI	60.700	mg/L	C	-	UNFI	250.000	mg/L	C	-	UNFI	60.900	mg/L	D	-
Manganese	UNFI	0.012	mg/L	C	-	UNFI	2.240	mg/L	C	-	UNFI	0.943	mg/L	D	-
Mercury	UNFI	0.000	mg/L	C	U	UNFI	0.000	mg/L	C	U	UNFI	0.000	mg/L	D	U
Molybdenum	UNFI	0.003	mg/L	C	U	UNFI	0.043	mg/L	C	-	UNFI	0.011	mg/L	D	U
Nickel	UNFI	0.003	mg/L	C	U	UNFI	0.136	mg/L	C	J	UNFI	0.068	mg/L	D	-
Potassium	UNFI	0.718	mg/L	C	-	UNFI	16.000	mg/L	C	-	UNFI	0.925	mg/L	D	-
Selenium	UNFI	0.004	mg/L	C	-	UNFI	0.004	mg/L	C	J	UNFI	0.001	mg/L	D	U
Silicon	UNFI	8.030	mg/L	C	-	UNFI	102.000	mg/L	C	J	UNFI	6.580	mg/L	D	-
Silver	UNFI	0.002	mg/L	C	U	UNFI	0.035	mg/L	C	-	UNFI	0.002	mg/L	D	U
Sodium	UNFI	10.000	mg/L	C	-	UNFI	8.850	mg/L	C	-	UNFI	11.700	mg/L	D	-
Thallium	UNFI	0.001	mg/L	C	U	UNFI	0.002	mg/L	C	UJ	UNFI	0.001	mg/L	D	U
Vanadium	UNFI	0.007	mg/L	C	U	UNFI	0.205	mg/L	C	-	UNFI	0.010	mg/L	D	U
Zinc	UNFI	0.015	mg/L	C	U	UNFI	0.330	mg/L	C	J	UNFI	0.012	mg/L	D	-
<u>Volatile Organics</u>															
1,1,1-Trichloroethane	UNFI	10.000	ug/L	C	U	NA				UNFI	10.000	ug/L	D	U	
1,1,2,2-Tetrachloroethane	UNFI	10.000	ug/L	C	U	NA				UNFI	10.000	ug/L	D	U	
1,1,2-Trichloroethane	UNFI	10.000	ug/L	C	U	NA				UNFI	10.000	ug/L	D	U	
1,1-Dichloroethane	UNFI	10.000	ug/L	C	U	NA				UNFI	10.000	ug/L	D	U	
1,1-Dichloroethene	UNFI	10.000	ug/L	C	U	NA				UNFI	10.000	ug/L	D	U	
1,2-Dichloroethane	UNFI	10.000	ug/L	C	U	NA				UNFI	10.000	ug/L	D	U	
1,2-Dichloroethene	UNFI	10.000	ug/L	C	U	NA				UNFI	10.000	ug/L	D	U	
1,2-Dichloropropane	UNFI	10.000	ug/L	C	U	NA				UNFI	10.000	ug/L	D	U	
2-Butanone	UNFI	10.000	ug/L	C	U	NA				UNFI	10.000	ug/L	D	U	
2-Hexanone	UNFI	10.000	ug/L	C	UJ	NA				UNFI	10.000	ug/L	D	UJ	
4-Methyl-2-pentanone	UNFI	10.000	ug/L	C	U	NA				UNFI	10.000	ug/L	D	U	
Acetone	UNFI	10.000	ug/L	C	U	NA				UNFI	10.000	ug/L	D	U	
Benzene	UNFI	10.000	ug/L	C	U	NA				UNFI	10.000	ug/L	D	U	

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1941 112997				1941 113316				1942 113000			
SAMPLING DATE	04/30/93				05/28/93				05/01/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Volatile Organics</u>												
Bromodichloromethane	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
Bromoform	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D UJ
Bromomethane	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D UJ
Carbon Tetrachloride	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
Carbon disulfide	UNFI	10.000	ug/L	C UJ	NA				UNFI	10.000	ug/L	D UJ
Chlorobenzene	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
Chloroethane	UNFI	10.000	ug/L	C UJ	NA				UNFI	10.000	ug/L	D UJ
Chloroform	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
Chloromethane	UNFI	10.000	ug/L	C UJ	NA				UNFI	10.000	ug/L	D UJ
Dibromochloromethane	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
Ethylbenzene	UNFI	10.000	ug/L	C UJ	NA				UNFI	10.000	ug/L	D U
Methylene chloride	UNFI	12.000	ug/L	C UJ	NA				UNFI	10.000	ug/L	D UJ
Styrene	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
Tetrachloroethene	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
Toluene	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
Trichloroethene	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
Vinyl Acetate	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
Vinyl chloride	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
Xylenes, Total	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
cis-1,3-Dichloropropene	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
trans-1,3-Dichloropropene	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
1,2-Dichlorobenzene	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
1,3-Dichlorobenzene	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
1,4-Dichlorobenzene	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
2,4,5-Trichlorophenol	UNFI	25.000	ug/L	C U	NA				UNFI	25.000	ug/L	D U
2,4,6-Trichlorophenol	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
2,4-Dichlorophenol	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
2,4-Dimethylphenol	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
2,4-Dinitrophenol	UNFI	25.000	ug/L	C R	NA				UNFI	25.000	ug/L	D R
2,4-Dinitrotoluene	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
2,6-Dinitrotoluene	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
2-Chloronaphthalene	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
2-Chlorophenol	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
2-Methylnaphthalene	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
2-Methylphenol	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
2-Nitroaniline	UNFI	25.000	ug/L	C U	NA				UNFI	25.000	ug/L	D U
2-Nitrophenol	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U
3,3'-Dichlorobenzidine	UNFI	10.000	ug/L	C U	NA				UNFI	10.000	ug/L	D U

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1941 112997				1941 113316				1942 113000						
SAMPLING DATE	04/30/93				05/28/93				05/01/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>															
3-Nitroaniline	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	D	U
4,6-Dinitro-2-methylphenol	UNFI	25.000	ug/L	C	R		NA				UNFI	25.000	ug/L	D	R
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
4-Methylphenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
4-Nitroaniline	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	D	U
4-Nitrophenol	UNFI	25.000	ug/L	C	R		NA				UNFI	25.000	ug/L	D	R
Acenaphthene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Acenaphthylene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Anthracene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Benzo(a)anthracene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Benzo(a)pyrene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Benzo(b)fluoranthene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Benzo(g,h,i)perylene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Benzo(k)fluoranthene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Benzoic acid	UNFI	50.000	ug/L	C	R		NA				UNFI	50.000	ug/L	D	R
Benzyl alcohol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Butyl benzyl phthalate	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Carbazole	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Chrysene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Di-n-butyl phthalate	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Di-n-octyl phthalate	UNFI	10.000	ug/L	C	R		NA				UNFI	10.000	ug/L	D	R
Dibenz(a,h)anthracene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Dibenzofuran	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Diethyl phthalate	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Dimethyl phthalate	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Fluoranthene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Fluorene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Hexachlorobenzene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Hexachlorobutadiene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Hexachlorocyclopentadiene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Hexachloroethane	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Indeno(1,2,3-cd)pyrene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Isophorone	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
N-Nitroso-di-n-propylamine	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
N-Nitrosodiphenylamine	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Naphthalene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Nitrobenzene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Pentachlorophenol	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	D	U
Phenanthrene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U
Phenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	D	U

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1941	1941	1942			
SAMPLE NUMBER	112997	113316	113000			
SAMPLING DATE	04/30/93	05/28/93	05/01/93			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
Semivolatile Organics						
Pyrene	UNFI	10.000 ug/L C U	NA	UNFI	10.000 ug/L D U	
bis(2-Chloroethoxy)methane	UNFI	10.000 ug/L C U	NA	UNFI	10.000 ug/L D U	
bis(2-Chloroethyl)ether	UNFI	10.000 ug/L C U	NA	UNFI	10.000 ug/L D U	
bis(2-Chloroisopropyl) ether	UNFI	10.000 ug/L C U	NA	UNFI	10.000 ug/L D U	
bis(2-Ethylhexyl) phthalate	UNFI	10.000 ug/L C UJ	NA	UNFI	10.000 ug/L D UJ	
p-Chloroaniline	UNFI	10.000 ug/L C U	NA	UNFI	10.000 ug/L D U	
Pesticide Organics/PCBs						
4,4"-DDD	UNFI	0.100 ug/L C U	NA	UNFI	0.100 ug/L D U	
4,4'-DDE	UNFI	0.100 ug/L C U	NA	UNFI	0.100 ug/L D U	
4,4'-DDT	UNFI	0.100 ug/L C U	NA	UNFI	0.100 ug/L D U	
Aldrin	UNFI	0.050 ug/L C U	NA	UNFI	0.050 ug/L D U	
Aroclor-1016	UNFI	1.000 ug/L C U	NA	UNFI	1.000 ug/L D U	
Aroclor-1221	UNFI	2.000 ug/L C U	NA	UNFI	2.000 ug/L D U	
Aroclor-1232	UNFI	1.000 ug/L C UJ	NA	UNFI	1.000 ug/L D U	
Aroclor-1242	UNFI	1.000 ug/L C UJ	NA	UNFI	1.000 ug/L D U	
Aroclor-1248	UNFI	1.000 ug/L C UJ	NA	UNFI	1.000 ug/L D U	
Aroclor-1254	UNFI	1.000 ug/L C UJ	NA	UNFI	1.000 ug/L D U	
Aroclor-1260	UNFI	1.000 ug/L C UJ	NA	UNFI	1.000 ug/L D U	
Dieldrin	UNFI	0.100 ug/L C U	NA	UNFI	0.100 ug/L D U	
Endosulfan II	UNFI	0.100 ug/L C U	NA	UNFI	0.100 ug/L D U	
Endosulfan sulfate	UNFI	0.100 ug/L C U	NA	UNFI	0.100 ug/L D U	
Endosulfan-I	UNFI	0.050 ug/L C U	NA	UNFI	0.050 ug/L D U	
Endrin	UNFI	0.100 ug/L C U	NA	UNFI	0.100 ug/L D U	
Endrin aldehyde	UNFI	0.100 ug/L C U	NA	UNFI	0.100 ug/L D U	
Endrin ketone	UNFI	0.100 ug/L C U	NA	UNFI	0.100 ug/L D U	
Heptachlor	UNFI	0.050 ug/L C U	NA	UNFI	0.050 ug/L D U	
Heptachlor epoxide	UNFI	0.050 ug/L C U	NA	UNFI	0.050 ug/L D U	
Methoxychlor	UNFI	0.500 ug/L C U	NA	UNFI	0.500 ug/L D U	
Toxaphene	UNFI	5.000 ug/L C UJ	NA	UNFI	5.000 ug/L D U	
alpha-BHC	UNFI	0.050 ug/L C UJ	NA	UNFI	0.050 ug/L D U	
alpha-Chlordane	UNFI	0.050 ug/L C U	NA	UNFI	0.050 ug/L D U	
beta-BHC	UNFI	0.050 ug/L C U	NA	UNFI	0.050 ug/L D U	
delta-BHC	UNFI	0.050 ug/L C UJ	NA	UNFI	0.050 ug/L D U	
gamma-BHC (Lindane)	UNFI	0.050 ug/L C UJ	NA	UNFI	0.050 ug/L D U	
gamma-Chlordane	UNFI	0.050 ug/L C U	NA	UNFI	0.050 ug/L D U	
General Chemistry						
Alkalinity	UNFI	420.000 mg/L B -	NA	UNFI	390.000 mg/L B -	
Ammonia	UNFI	0.410 mg/L B -	NA	UNFI	0.560 mg/L B -	

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1941	1941	1942			
SAMPLE NUMBER	112997	113316	113000			
SAMPLING DATE	04/30/93	05/28/93	05/01/93			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>General Chemistry</u>						
Chloride	UNFI	3.150 mg/L B -	NA	UNFI	4.610 mg/L B -	
Fluoride	UNFI	0.510 mg/L B -	NA	UNFI	0.300 mg/L B -	
Nitrate	UNFI	0.710 mg/L B R	NA	UNFI	0.100 mg/L B R	
Phenols	UNFI	0.010 mg/L B U	NA	UNFI	0.010 mg/L B U	
Sulfate	UNFI	87.500 mg/L B -	NA	UNFI	162.700 mg/L B -	
Sulfide	UNFI	0.500 mg/L B U	NA	UNFI	0.500 mg/L B U	
Total Kjeldahl Nitrogen	UNFI	8.430 mg/L B -	NA	UNFI	3.240 mg/L B -	
Total Organic Carbon	UNFI	2.600 mg/L B -	NA	UNFI	3.380 mg/L B -	
Total Organic Halides	UNFI	0.010 mg/L B U	NA	UNFI	0.012 mg/L B -	
Total Organic Nitrogen	UNFI	8.020 mg/L B -	NA	UNFI	2.680 mg/L B -	
Total Phosphorous	UNFI	10.370 mg/L B -	NA	UNFI	8.060 mg/L B -	

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1942 113319				1954 113798				2014 111992			
SAMPLING DATE	05/28/93				06/22/93				04/30/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Inorganics</u>												
Aluminum		NA			FILT	0.229	mg/L	C U		NA		
Aluminum	UNFI	53.000	mg/L	C -	UNFI	49.000	mg/L	C -	UNFI	0.696	mg/L	C -
Antimony		NA			FILT	0.012	mg/L	C -	UNFI	NA		
Antimony	UNFI	0.005	mg/L	C UJ	UNFI	0.005	mg/L	C U	UNFI	0.001	mg/L	C UJ
Arsenic		NA			FILT	0.002	mg/L	C U	UNFI	NA		
Arsenic	UNFI	0.006	mg/L	C J	UNFI	0.010	mg/L	C -	UNFI	0.001	mg/L	C -
Barium		NA			FILT	0.054	mg/L	C -	UNFI	NA		
Barium	UNFI	0.368	mg/L	C -	UNFI	0.319	mg/L	C -	UNFI	0.039	mg/L	C J
Beryllium		NA			FILT	0.002	mg/L	C U	UNFI	NA		
Beryllium	UNFI	0.002	mg/L	C U	UNFI	0.002	mg/L	C U	UNFI	0.002	mg/L	C U
Cadmium		NA			FILT	0.005	mg/L	C U	UNFI	NA		
Cadmium	UNFI	0.005	mg/L	C UJ	UNFI	0.005	mg/L	C U	UNFI	0.002	mg/L	C U
Calcium		NA			FILT	161.000	mg/L	C -	UNFI	NA		
Calcium	UNFI	390.000	mg/L	C -	UNFI	381.000	mg/L	C -	UNFI	83.500	mg/L	C -
Chromium		NA			FILT	0.010	mg/L	C U	UNFI	NA		
Chromium	UNFI	0.056	mg/L	C J	UNFI	0.047	mg/L	C U	UNFI	0.004	mg/L	C U
Cobalt		NA			FILT	0.010	mg/L	C U	UNFI	NA		
Cobalt	UNFI	0.026	mg/L	C -	UNFI	0.025	mg/L	C -	UNFI	0.003	mg/L	C U
Copper		NA			FILT	0.010	mg/L	C U	UNFI	NA		
Copper	UNFI	0.076	mg/L	C -	UNFI	0.062	mg/L	C U	UNFI	0.005	mg/L	C U
Cyanide		NA			UNFI	0.002	mg/L	C U	UNFI	0.001	mg/L	C U
Iron		NA			FILT	0.020	mg/L	C U	UNFI	NA		
Iron	UNFI	82.400	mg/L	C -	UNFI	70.300	mg/L	C -	UNFI	0.295	mg/L	C -
Lead		NA			FILT	0.002	mg/L	C U	UNFI	NA		
Lead	UNFI	0.040	mg/L	C -	UNFI	0.045	mg/L	C -	UNFI	0.001	mg/L	C U
Magnesium		NA			FILT	72.700	mg/L	C -	UNFI	NA		
Magnesium	UNFI	145.000	mg/L	C -	UNFI	147.000	mg/L	C -	UNFI	20.600	mg/L	C -
Manganese		NA			FILT	1.500	mg/L	C -	UNFI	NA		
Manganese	UNFI	2.310	mg/L	C -	UNFI	2.370	mg/L	C -	UNFI	0.023	mg/L	C -
Mercury		NA			FILT	0.000	mg/L	C U	UNFI	NA		
Mercury	UNFI	0.000	mg/L	C U	UNFI	0.000	mg/L	C U	UNFI	0.000	mg/L	C U
Molybdenum		NA			FILT	0.010	mg/L	C U	UNFI	NA		
Molybdenum	UNFI	0.031	mg/L	C -	UNFI	0.032	mg/L	C U	UNFI	0.003	mg/L	C U
Nickel		NA			FILT	0.020	mg/L	C U	UNFI	NA		
Nickel	UNFI	0.116	mg/L	C J	UNFI	0.127	mg/L	C -	UNFI	0.003	mg/L	C U
Potassium		NA			FILT	2.040	mg/L	C -	UNFI	NA		
Potassium	UNFI	11.600	mg/L	C -	UNFI	13.600	mg/L	C -	UNFI	2.760	mg/L	C -
Selenium		NA			FILT	0.002	mg/L	C UJ	UNFI	NA		
Selenium	UNFI	0.002	mg/L	C UJ	UNFI	0.002	mg/L	C U	UNFI	0.001	mg/L	C U
Silicon		NA			FILT	7.890	mg/L	C -	UNFI	NA		
Silicon	UNFI	74.600	mg/L	C J	UNFI	77.200	mg/L	C -	UNFI	3.070	mg/L	C -
Silver		NA			FILT	0.010	mg/L	C U	UNFI	NA		

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1942			1954			2014			
SAMPLE NUMBER	113319			113798			111992			
SAMPLING DATE	05/28/93			06/22/93			04/30/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>										
Silver	UNFI	0.022	mg/L	C	-	UNFI	0.018	mg/L	C	-
Sodium	NA					FILT	11.600	mg/L	C	-
Sodium	UNFI	12.900	mg/L	C	-	UNFI	10.600	mg/L	C	-
Thallium	NA					FILT	0.002	mg/L	C	-
Thallium	UNFI	0.002	mg/L	C	UJ	UNFI	0.002	mg/L	C	UJ
Vanadium	NA					FILT	0.010	mg/L	C	UJ
Vanadium	UNFI	0.120	mg/L	C	-	UNFI	0.103	mg/L	C	-
Zinc	NA					FILT	0.007	mg/L	C	-
Zinc	UNFI	0.221	mg/L	C	J	UNFI	0.181	mg/L	C	-
<u>Volatile Organics</u>										
1,1,1-Trichloroethane	NA					UNFI	10.000	ug/L	C	U
1,1,2,2-Tetrachloroethane	NA					UNFI	10.000	ug/L	C	U
1,1,2-Trichloroethane	NA					UNFI	10.000	ug/L	C	U
1,1-Dichloroethane	NA					UNFI	10.000	ug/L	C	U
1,1-Dichloroethene	NA					UNFI	10.000	ug/L	C	U
1,2-Dichloroethane	NA					UNFI	10.000	ug/L	C	U
1,2-Dichloroethene	NA					UNFI	10.000	ug/L	C	U
1,2-Dichloropropane	NA					UNFI	10.000	ug/L	C	U
2-Butanone	NA					UNFI	10.000	ug/L	C	U
2-Hexanone	NA					UNFI	10.000	ug/L	C	UJ
4-Methyl-2-pentanone	NA					UNFI	10.000	ug/L	C	U
Acetone	NA					UNFI	10.000	ug/L	C	U
Benzene	NA					UNFI	10.000	ug/L	C	U
Bromodichloromethane	NA					UNFI	10.000	ug/L	C	U
Bromoform	NA					UNFI	10.000	ug/L	C	U
Bromomethane	NA					UNFI	10.000	ug/L	C	U
Carbon Tetrachloride	NA					UNFI	10.000	ug/L	C	U
Carbon disulfide	NA					UNFI	10.000	ug/L	C	U
Chlorobenzene	NA					UNFI	10.000	ug/L	C	U
Chloroethane	NA					UNFI	10.000	ug/L	C	U
Chloroform	NA					UNFI	10.000	ug/L	C	U
Chloromethane	NA					UNFI	10.000	ug/L	C	U
Dibromochloromethane	NA					UNFI	10.000	ug/L	C	U
Ethylbenzene	NA					UNFI	10.000	ug/L	C	U
Methylene chloride	NA					UNFI	15.000	ug/L	C	U
Styrene	NA					UNFI	10.000	ug/L	C	U
Tetrachloroethene	NA					UNFI	10.000	ug/L	C	U
Toluene	NA					UNFI	10.000	ug/L	C	U
Trichloroethene	NA					UNFI	10.000	ug/L	C	U
Vinyl Acetate	NA					NA				

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1942	1954				2014						
SAMPLE NUMBER	113319	113798				111992						
SAMPLING DATE	05/28/93	06/22/93				04/30/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ		
Volatile Organics												
Vinyl chloride	NA		UNFI	10.000	ug/L	U	U	UNFI	10.000	ug/L	C	U
Xylenes, Total	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
cis-1,3-Dichloropropene	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
trans-1,3-Dichloropropene	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Semivolatile Organics												
1,2,4-Trichlorobenzene	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,2-Dichlorobenzene	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,3-Dichlorobenzene	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,4-Dichlorobenzene	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,4,5-Trichlorophenol	NA		UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U
2,4,6-Trichlorophenol	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,4-Dichlorophenol	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,4-Dimethylphenol	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,4-Dinitrophenol	NA		UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	R
2,4-Dinitrotoluene	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,6-Dinitrotoluene	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Benzyl-4-chlorophenol	NA		UNFI	10.000	ug/L	C	U	NA				
2-Chloronaphthalene	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Chlorophenol	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Methylnaphthalene	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Methylphenol	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Nitroaniline	NA		UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U
2-Nitrophenol	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
3,3'-Dichlorobenzidine	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
3-Nitroaniline	NA		UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U
4,6-Dinitro-2-methylphenol	NA		UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	R
4-Bromophenyl phenyl ether	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
4-Chloro-3-methylphenol	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
4-Chlorophenylphenyl ether	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
4-Methylphenol	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
4-Nitroaniline	NA		UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U
4-Nitrophenol	NA		UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	R
Acenaphthene	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Acenaphthylene	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Anthracene	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(a)anthracene	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(a)pyrene	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(b)fluoranthene	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(g,h,i)perylene	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(k)fluoranthene	NA		UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1942 113319	1954 113798	2014 111992				
SAMPLING DATE	05/28/93	06/22/93	04/30/93				
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	
<u>Semivolatile Organics</u>							
Benzoic acid	NA	UNFI	50.000	ug/L C U	UNFI	50.000	ug/L C R
Benzyl alcohol	NA	UNFI	10.000	ug/L C UJ	UNFI	10.000	ug/L C UJ
Butyl benzyl phthalate	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C UJ
Carbazole	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Chrysene	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Di-n-butyl phthalate	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Di-n-octyl phthalate	NA	UNFI	10.000	ug/L C R	UNFI	10.000	ug/L C R
Dibenzo(a,h)anthracene	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C UJ
Dibenzofuran	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Diethyl phthalate	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Dimethyl phthalate	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Fluoranthene	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Fluorene	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Hexachlorobenzene	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C UJ
Hexachlorobutadiene	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Hexachlorocyclopentadiene	NA	UNFI	10.000	ug/L C UJ	UNFI	10.000	ug/L C UJ
Hexachloroethane	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Indeno(1,2,3-cd)pyrene	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Isophorone	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
N-Nitroso-di-n-propylamine	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
N-Nitrosodimethylamine	NA	UNFI	10.000	ug/L C U	NA		
N-Nitrosodiphenylamine	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Naphthalene	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Nitrobenzene	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Pentachlorophenol	NA	UNFI	25.000	ug/L C UJ	UNFI	25.000	ug/L C UJ
Phenanthrene	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Phenol	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Pyrene	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
Tributyl phosphate	NA	UNFI	10.000	ug/L C R	NA		
bis(2-Chloroethoxy)methane	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
bis(2-Chloroethyl)ether	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
bis(2-Chloroisopropyl) ether	NA	UNFI	10.000	ug/L C UJ	UNFI	10.000	ug/L C UJ
bis(2-Ethylhexyl) phthalate	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
p-Chloroaniline	NA	UNFI	10.000	ug/L C U	UNFI	10.000	ug/L C U
<u>Pesticide Organics/PCBs</u>							
4,4'-DDD	NA	UNFI	0.100	ug/L C U	UNFI	0.100	ug/L C U
4,4'-DDE	NA	UNFI	0.100	ug/L C U	UNFI	0.100	ug/L C U
4,4'-DDT	NA	UNFI	0.100	ug/L C U	UNFI	0.100	ug/L C U
Aldrin	NA	UNFI	0.050	ug/L C U	UNFI	0.050	ug/L C U
Aroclor-1016	NA	UNFI	1.000	ug/L C U	UNFI	1.000	ug/L C U

TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1942	1954				2014					
SAMPLE NUMBER	113319	113798				111992					
SAMPLING DATE	05/28/93	06/22/93				04/30/93					
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L		
<u>Pesticide Organics/PCBs</u>											
Aroclor-1221	NA	UNFI	2.000	ug/L	C	U	UNFI	2.000	ug/L	C	U
Aroclor-1232	NA	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U
Aroclor-1242	NA	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U
Aroclor-1248	NA	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U
Aroclor-1254	NA	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U
Aroclor-1260	NA	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U
Dieldrin	NA	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Endosulfan II	NA	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Endosulfan sulfate	NA	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Endosulfan-I	NA	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
Endrin	NA	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Endrin aldehyde	NA	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Endrin ketone	NA	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Heptachlor	NA	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
Heptachlor epoxide	NA	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
Methoxychlor	NA	UNFI	0.500	ug/L	C	U	UNFI	0.500	ug/L	C	U
Toxaphene	NA	UNFI	5.000	ug/L	C	U	UNFI	5.000	ug/L	C	U
alpha-BHC	NA	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
alpha-Chlordane	NA	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
beta-BHC	NA	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
delta-BHC	NA	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
gamma-BHC (Lindane)	NA	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
gamma-Chlordane	NA	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
<u>General Chemistry</u>											
Alkalinity	NA	UNFI	560.000	mg/L	B	-	UNFI	240.000	mg/L	B	-
Ammonia	NA	UNFI	0.220	mg/L	B	-	UNFI	0.100	mg/L	B	U
Chloride	NA	UNFI	6.790	mg/L	B	-	UNFI	22.890	mg/L	B	-
Fluoride	NA	UNFI	0.250	mg/L	B	-	UNFI	0.230	mg/L	B	-
Nitrate	NA	UNFI	0.100	mg/L	B	R	UNFI	1.700	mg/L	B	R
Phenols	NA	UNFI	0.010	mg/L	B	U	UNFI	0.010	mg/L	B	U
Sulfate	NA	UNFI	203.700	mg/L	B	-	UNFI	81.100	mg/L	B	-
Sulfide	NA	UNFI	0.500	mg/L	B	U	UNFI	0.500	mg/L	B	U
Total Kjeldahl Nitrogen	NA	UNFI	1.490	mg/L	B	-	UNFI	0.220	mg/L	B	-
Total Organic Carbon	NA	UNFI	1.400	mg/L	B	-	UNFI	1.410	mg/L	B	-
Total Organic Halides	NA	UNFI	0.021	mg/L	B	J	UNFI	0.014	mg/L	B	-
Total Organic Nitrogen	NA	UNFI	1.270	mg/L	B	-	UNFI	0.220	mg/L	B	-
Total Phosphorous	NA	UNFI	2.070	mg/L	B	-	UNFI	0.040	mg/L	B	-

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2046 116233			2065 112008			2065 113291		
SAMPLING DATE	05/11/93			05/03/93			05/03/93		
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ
<u>Inorganics</u>									
Aluminum	UNFI	NA		UNFI	NA		FILT	0.144	mg/L C -
Aluminum	UNFI	0.078	mg/L C U	UNFI	0.080	mg/L C -	FILT	NA	0.002 mg/L C UJ
Antimony	UNFI	NA		UNFI	0.001	mg/L C UJ	FILT	NA	
Antimony	UNFI	0.002	mg/L C U	UNFI	0.001	mg/L C U	FILT	0.001	mg/L C U
Arsenic	UNFI	NA		UNFI	NA		FILT	NA	
Arsenic	UNFI	0.001	mg/L C U	UNFI	0.001	mg/L C U	FILT	NA	
Barium	UNFI	NA		UNFI	NA		FILT	0.042	mg/L C J
Barium	UNFI	0.073	mg/L C -	UNFI	0.042	mg/L C J	FILT	NA	
Beryllium	UNFI	NA		UNFI	NA		FILT	0.003	mg/L C U
Beryllium	UNFI	0.001	mg/L C U	UNFI	0.003	mg/L C U	FILT	NA	
Cadmium	UNFI	NA		UNFI	NA		FILT	0.002	mg/L C U
Cadmium	UNFI	0.002	mg/L C U	UNFI	0.002	mg/L C U	FILT	NA	
Calcium	UNFI	NA		UNFI	NA		FILT	158.000	mg/L C -
Calcium	UNFI	124.000	mg/L C -	UNFI	155.000	mg/L C -	FILT	NA	
Chromium	UNFI	NA		UNFI	NA		FILT	0.004	mg/L C U
Chromium	UNFI	0.004	mg/L C U	UNFI	0.004	mg/L C U	FILT	NA	
Cobalt	UNFI	NA		UNFI	NA		FILT	0.003	mg/L C U
Cobalt	UNFI	0.003	mg/L C U	UNFI	0.003	mg/L C U	FILT	NA	
Copper	UNFI	NA		UNFI	NA		FILT	0.002	mg/L C U
Copper	UNFI	0.004	mg/L C U	UNFI	0.002	mg/L C U	FILT	NA	
Cyanide	UNFI	NA		UNFI	NA		FILT	0.001	mg/L C R
Cyanide	UNFI	0.001	mg/L C U	UNFI	0.001	mg/L C U	FILT	NA	
Iron	UNFI	NA		UNFI	NA		FILT	0.312	mg/L C -
Iron	UNFI	0.033	mg/L C U	UNFI	0.811	mg/L C -	FILT	NA	
Lead	UNFI	NA		UNFI	NA		FILT	0.001	mg/L C UJ
Lead	UNFI	0.001	mg/L C U	UNFI	0.001	mg/L C UJ	FILT	NA	
Magnesium	UNFI	NA		UNFI	NA		FILT	50.800	mg/L C -
Magnesium	UNFI	33.500	mg/L C -	UNFI	49.300	mg/L C -	FILT	NA	
Manganese	UNFI	NA		UNFI	NA		FILT	0.257	mg/L C -
Manganese	UNFI	0.004	mg/L C -	UNFI	0.440	mg/L C -	FILT	NA	
Mercury	UNFI	NA		UNFI	NA		FILT	0.000	mg/L C U
Mercury	UNFI	0.000	mg/L C U	UNFI	0.000	mg/L C U	FILT	NA	
Molybdenum	UNFI	NA		UNFI	NA		FILT	0.006	mg/L C U
Molybdenum	UNFI	0.003	mg/L C U	UNFI	0.003	mg/L C U	FILT	NA	
Nickel	UNFI	NA		UNFI	NA		FILT	0.003	mg/L C U
Nickel	UNFI	0.003	mg/L C U	UNFI	0.003	mg/L C U	FILT	NA	
Potassium	UNFI	NA		UNFI	NA		FILT	3.200	mg/L C -
Potassium	UNFI	4.400	mg/L C -	UNFI	3.090	mg/L C -	FILT	NA	
Selenium	UNFI	NA		UNFI	NA		FILT	0.001	mg/L C U
Selenium	UNFI	0.002	mg/L C J	UNFI	0.001	mg/L C U	FILT	NA	
Silicon	UNFI	NA		UNFI	NA		FILT	5.470	mg/L C -
Silicon	UNFI	5.030	mg/L C -	UNFI	5.180	mg/L C -	FILT	NA	

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2046				2065				2065						
SAMPLE NUMBER	116233				112008				113291						
SAMPLING DATE	05/11/93				05/03/93				05/03/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>															
Silver	UNFI	NA				UNFI	NA				FILT	0.002	mg/L	C	U
Silver	UNFI	0.002	mg/L	C	U	UNFI	0.002	mg/L	C	U		NA			
Sodium	UNFI	NA				UNFI	NA				FILT	12.700	mg/L	C	-
Sodium	UNFI	9.910	mg/L	C	-	UNFI	12.400	mg/L	C	-		NA			
Thallium	UNFI	NA				UNFI	NA				FILT	0.001	mg/L	C	U
Thallium	UNFI	0.001	mg/L	C	U	UNFI	0.001	mg/L	C	U		NA			
Vanadium	UNFI	NA				UNFI	NA				FILT	0.010	mg/L	C	U
Vanadium	UNFI	0.009	mg/L	C	U	UNFI	0.011	mg/L	C	U		NA			
Zinc	UNFI	NA				UNFI	NA				FILT	0.004	mg/L	C	U
Zinc	UNFI	0.013	mg/L	C	U	UNFI	0.005	mg/L	C	U		NA			
<u>Volatile Organics</u>															
1,1,1-Trichloroethane	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
1,1,2,2-Tetrachloroethane	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
1,1,2-Trichloroethane	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
1,1-Dichloroethane	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
1,1-Dichloroethene	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
1,2-Dichloroethane	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
1,2-Dichloroethene	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
1,2-Dichloropropane	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
2-Butanone	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
2-Hexanone	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
4-Methyl-2-pentanone	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
Acetone	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
Benzene	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
Bromodichloromethane	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
Bromoform	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
Bromomethane	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
Carbon Tetrachloride	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
Carbon disulfide	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
Chlorobenzene	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
Chloroethane	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
Chloroform	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
Chloromethane	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
Dibromochloromethane	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
Ethylbenzene	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
Methylene chloride	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
Styrene	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	C	U		NA			
Tetrachloroethene	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
Toluene	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			
Trichloroethene	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA			

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2046				2065				2065			
SAMPLE NUMBER	116233				112008				113291			
SAMPLING DATE	05/11/93				05/03/93				05/03/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS
<u>Volatile Organics</u>												
Vinyl Acetate	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA
Vinyl chloride	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA
Xylenes, Total	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA
cis-1,3-Dichloropropene	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA
trans-1,3-Dichloropropene	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	C	U		NA
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
1,2-Dichlorobenzene	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
1,3-Dichlorobenzene	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
1,4-Dichlorobenzene	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
2,4,5-Trichlorophenol	UNFI	25.000	ug/L	D	U	UNFI	12.000	ug/L	C	U		NA
2,4,6-Trichlorophenol	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
2,4-Dichlorophenol	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
2,4-Dimethylphenol	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
2,4-Dinitrophenol	UNFI	25.000	ug/L	D	U	UNFI	12.000	ug/L	C	UJ		NA
2,4-Dinitrotoluene	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
2,6-Dinitrotoluene	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
2-Chloronaphthalene	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
2-Chlorophenol	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
2-Methylnaphthalene	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
2-Methylphenol	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
2-Nitroaniline	UNFI	25.000	ug/L	D	U	UNFI	12.000	ug/L	C	U		NA
2-Nitrophenol	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
3,3'-Dichlorobenzidine	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
3-Nitroaniline	UNFI	25.000	ug/L	D	U	UNFI	12.000	ug/L	C	U		NA
4,6-Dinitro-2-methylphenol	UNFI	25.000	ug/L	D	R	UNFI	12.000	ug/L	C	U		NA
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
4-Methylphenol	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
4-Nitroaniline	UNFI	25.000	ug/L	D	R	UNFI	12.000	ug/L	C	U		NA
4-Nitrophenol	UNFI	25.000	ug/L	D	U	UNFI	12.000	ug/L	C	U		NA
Acenaphthene	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
Acenaphthylene	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
Anthracene	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
Benzo(a)anthracene	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
Benzo(a)pyrene	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
Benzo(b)fluoranthene	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
Benzo(g,h,i)perylene	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA
Benzo(k)fluoranthene	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	C	U		NA

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2046 116233				2065 112008				2065 113291			
SAMPLING DATE	05/11/93				05/03/93				05/03/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Semivolatile Organics</u>												
Benzoic acid	UNFI	50.000	ug/L	D U		NA				NA		
Benzyl alcohol	UNFI	10.000	ug/L	D U		NA				NA		
Butyl benzyl phthalate	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
Carbazole	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
Chrysene	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
Di-n-butyl phthalate	UNFI	4.000	ug/L	D J	UNFI	5.000	ug/L	C U		NA		
Di-n-octyl phthalate	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
Dibenzo(a,h)anthracene	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
Dibenzofuran	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
Diethyl phthalate	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
Dimethyl phthalate	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
Fluoranthene	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
Fluorene	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
Hexachlorobenzene	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
Hexachlorobutadiene	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
Hexachlorocyclopentadiene	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
Hexachloroethane	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
Indeno(1,2,3-cd)pyrene	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
Isophorone	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
N-Nitroso-di-n-propylamine	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
N-Nitrosodiphenylamine	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
Naphthalene	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
Nitrobenzene	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
Pentachlorophenol	UNFI	25.000	ug/L	D U	UNFI	12.000	ug/L	C U		NA		
Phenanthrene	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
Phenol	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
Pyrene	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
bis(2-Chloroethoxy)methane	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
bis(2-Chloroethyl)ether	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
bis(2-Chloroisopropyl) ether	UNFI	10.000	ug/L	D UJ	UNFI	5.000	ug/L	C U		NA		
bis(2-Ethylhexyl) phthalate	UNFI	3.000	ug/L	D J	UNFI	5.000	ug/L	C U		NA		
p-Chloroaniline	UNFI	10.000	ug/L	D U	UNFI	5.000	ug/L	C U		NA		
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	UNFI	0.100	ug/L	D U	UNFI	0.100	ug/L	C U		NA		
4,4'-DDE	UNFI	0.100	ug/L	D U	UNFI	0.100	ug/L	C U		NA		
4,4'-DDT	UNFI	0.100	ug/L	D U	UNFI	0.100	ug/L	C U		NA		
Aldrin	UNFI	0.050	ug/L	D U	UNFI	0.050	ug/L	C U		NA		
Aroclor-1016	UNFI	1.000	ug/L	D U	UNFI	1.000	ug/L	C UJ		NA		
Aroclor-1221	UNFI	2.000	ug/L	D U	UNFI	2.000	ug/L	C UJ		NA		
Aroclor-1232	UNFI	1.000	ug/L	D U	UNFI	1.000	ug/L	C UJ		NA		

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2046				2065				2065			
SAMPLE NUMBER	116233				112008				113291			
SAMPLING DATE	05/11/93				05/03/93				05/03/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS
<u>Pesticide Organics/PCBs</u>												
Aroclor-1242	UNFI	1.000	ug/L	D	U	UNFI	1.000	ug/L	C	UJ		NA
Aroclor-1248	UNFI	1.000	ug/L	D	U	UNFI	1.000	ug/L	C	UJ		NA
Aroclor-1254	UNFI	1.000	ug/L	D	U	UNFI	1.000	ug/L	C	UJ		NA
Aroclor-1260	UNFI	1.000	ug/L	D	U	UNFI	1.000	ug/L	C	UJ		NA
Dieldrin	UNFI	0.100	ug/L	D	U	UNFI	0.100	ug/L	C	U		NA
Endosulfan II	UNFI	0.100	ug/L	D	U	UNFI	0.100	ug/L	C	U		NA
Endosulfan sulfate	UNFI	0.100	ug/L	D	U	UNFI	0.100	ug/L	C	U		NA
Endosulfan-I	UNFI	0.050	ug/L	D	U	UNFI	0.050	ug/L	C	U		NA
Endrin	UNFI	0.100	ug/L	D	U	UNFI	0.100	ug/L	C	U		NA
Endrin aldehyde	UNFI	0.100	ug/L	D	U	UNFI	0.100	ug/L	C	U		NA
Endrin ketone	UNFI	0.100	ug/L	D	U	UNFI	0.100	ug/L	C	U		NA
Heptachlor	UNFI	0.050	ug/L	D	U	UNFI	0.050	ug/L	C	U		NA
Heptachlor epoxide	UNFI	0.050	ug/L	D	U	UNFI	0.050	ug/L	C	U		NA
Methoxychlor	UNFI	0.500	ug/L	D	U	UNFI	0.500	ug/L	C	U		NA
Toxaphene	UNFI	5.000	ug/L	D	U	UNFI	5.000	ug/L	C	UJ		NA
alpha-BHC	UNFI	0.050	ug/L	D	U	UNFI	0.050	ug/L	C	U		NA
alpha-Chlordane	UNFI	0.050	ug/L	D	U	UNFI	0.050	ug/L	C	U		NA
beta-BHC	UNFI	0.050	ug/L	D	U	UNFI	0.050	ug/L	C	U		NA
delta-BHC	UNFI	0.050	ug/L	D	U	UNFI	0.050	ug/L	C	U		NA
gamma-BHC (Lindane)	UNFI	0.050	ug/L	D	U	UNFI	0.050	ug/L	C	U		NA
gamma-Chlordane	UNFI	0.050	ug/L	D	U	UNFI	0.050	ug/L	C	U		NA
<u>General Chemistry</u>												
Alkalinity	UNFI	369.000	mg/L	B	-	UNFI	437.500	mg/L	B	-		NA
Ammonia	UNFI	0.100	mg/L	B	U	UNFI	0.100	mg/L	B	U		NA
Chloride	UNFI	20.100	mg/L	B	-	UNFI	19.380	mg/L	B	-		NA
Fluoride	UNFI	0.150	mg/L	B	-	UNFI	0.110	mg/L	B	-		NA
Nitrate	UNFI	1.630	mg/L	B	J	UNFI	0.150	mg/L	B	J		NA
Phenols	UNFI	0.010	mg/L	B	U	UNFI	0.010	mg/L	B	U		NA
Sulfate	UNFI	73.500	mg/L	B	-	UNFI	18.600	mg/L	B	-		NA
Sulfide	UNFI	0.050	mg/L	B	U	UNFI	0.500	mg/L	B	U		NA
Total Kjeldahl Nitrogen	UNFI	0.110	mg/L	B	-	UNFI	0.100	mg/L	B	U		NA
Total Organic Carbon	UNFI	1.000	mg/L	B	U	UNFI	1.000	mg/L	B	U		NA
Total Organic Halides	UNFI	0.010	mg/L	B	U	UNFI	0.010	mg/L	B	U		NA
Total Organic Nitrogen	UNFI	0.110	mg/L	B	-	UNFI	0.100	mg/L	B	U		NA
Total Phosphorous	UNFI	0.020	mg/L	B	U	UNFI	0.020	mg/L	B	U		NA

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2385	2401	2943					
SAMPLE NUMBER	111998	116229	113003					
SAMPLING DATE	04/28/93	05/11/93	05/05/93					
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ		
<u>Inorganics</u>								
Aluminum	FILT	0.084 mg/L C U	UNFI	NA	0.234 mg/L C -	UNFI	NA	0.082 mg/L C U
Aluminum	FILT	NA	UNFI	NA	0.003 mg/L C UJ	UNFI	NA	0.002 mg/L C UJ
Antimony	FILT	0.001 mg/L C U	UNFI	NA	0.001 mg/L C -	UNFI	NA	0.001 mg/L C U
Antimony	FILT	NA	UNFI	NA	0.049 mg/L C -	UNFI	NA	0.043 mg/L C -
Arsenic	FILT	0.001 mg/L C U	UNFI	NA	0.001 mg/L C U	UNFI	NA	0.001 mg/L C U
Arsenic	FILT	NA	UNFI	NA	0.002 mg/L C U	UNFI	NA	0.002 mg/L C U
Barium	FILT	0.069 mg/L C -	UNFI	NA	110.000 mg/L C -	UNFI	NA	103.000 mg/L C -
Barium	FILT	NA	UNFI	NA	0.005 mg/L C -	UNFI	NA	0.004 mg/L C U
Beryllium	FILT	0.004 mg/L C U	UNFI	NA	0.003 mg/L C U	UNFI	NA	0.003 mg/L C U
Beryllium	FILT	NA	UNFI	NA	0.005 mg/L C U	UNFI	NA	0.002 mg/L C U
Cadmium	FILT	0.002 mg/L C U	UNFI	NA	0.002 mg/L C U	UNFI	NA	0.001 mg/L C U
Cadmium	FILT	NA	UNFI	NA	0.001 mg/L C U	UNFI	NA	0.001 mg/L C U
Calcium	FILT	132.000 mg/L C -	UNFI	NA	NA	UNFI	NA	NA
Calcium	FILT	NA	UNFI	NA	110.000 mg/L C -	UNFI	NA	103.000 mg/L C -
Chromium	FILT	0.004 mg/L C U	UNFI	NA	NA	UNFI	NA	NA
Chromium	FILT	NA	UNFI	NA	0.005 mg/L C -	UNFI	NA	0.004 mg/L C U
Cobalt	FILT	0.003 mg/L C U	UNFI	NA	0.003 mg/L C U	UNFI	NA	0.003 mg/L C U
Cobalt	FILT	NA	UNFI	NA	0.003 mg/L C U	UNFI	NA	0.003 mg/L C U
Copper	FILT	0.003 mg/L C U	UNFI	NA	0.005 mg/L C U	UNFI	NA	0.002 mg/L C U
Copper	FILT	NA	UNFI	NA	0.001 mg/L C U	UNFI	NA	0.001 mg/L C U
Cyanide	UNFI	0.001 mg/L C U	UNFI	NA	NA	UNFI	NA	NA
Iron	FILT	0.009 mg/L C U	UNFI	NA	0.706 mg/L C -	UNFI	NA	0.074 mg/L C -
Iron	FILT	NA	UNFI	NA	0.002 mg/L C -	UNFI	NA	0.001 mg/L C U
Lead	FILT	0.001 mg/L C U	UNFI	NA	0.002 mg/L C -	UNFI	NA	0.001 mg/L C U
Lead	FILT	NA	UNFI	NA	33.000 mg/L C -	UNFI	NA	27.900 mg/L C -
Magnesium	FILT	40.300 mg/L C -	UNFI	NA	NA	UNFI	NA	NA
Magnesium	FILT	NA	UNFI	NA	0.017 mg/L C -	UNFI	NA	0.069 mg/L C -
Manganese	FILT	0.069 mg/L C -	UNFI	NA	0.000 mg/L C U	UNFI	NA	0.000 mg/L C U
Manganese	FILT	NA	UNFI	NA	0.003 mg/L C U	UNFI	NA	0.003 mg/L C U
Mercury	FILT	0.000 mg/L C U	UNFI	NA	0.007 mg/L C -	UNFI	NA	0.003 mg/L C U
Mercury	FILT	NA	UNFI	NA	0.001 mg/L C U	UNFI	NA	0.001 mg/L C U
Molybdenum	FILT	0.003 mg/L C U	UNFI	NA	NA	UNFI	NA	NA
Molybdenum	FILT	NA	UNFI	NA	0.003 mg/L C U	UNFI	NA	0.003 mg/L C U
Nickel	FILT	0.004 mg/L C -	UNFI	NA	0.007 mg/L C -	UNFI	NA	0.003 mg/L C U
Nickel	FILT	NA	UNFI	NA	0.001 mg/L C U	UNFI	NA	0.001 mg/L C U
Potassium	FILT	2.960 mg/L C -	UNFI	NA	1.680 mg/L C -	UNFI	NA	2.430 mg/L C -
Potassium	FILT	NA	UNFI	NA	0.001 mg/L C U	UNFI	NA	0.001 mg/L C U
Selenium	FILT	0.003 mg/L C J	UNFI	NA	NA	UNFI	NA	NA
Selenium	FILT	NA	UNFI	NA	5.140 mg/L C -	UNFI	NA	4.470 mg/L C -
Silicon	FILT	5.790 mg/L C -	UNFI	NA	NA	UNFI	NA	NA
Silicon	FILT	NA	UNFI	NA	NA	UNFI	NA	NA
Silver	FILT	0.002 mg/L C U	UNFI	NA	NA	UNFI	NA	NA

TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2385				2401				2943						
SAMPLE NUMBER	111998				116229				113003						
SAMPLING DATE	04/28/93				05/11/93				05/05/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>															
Silver		NA				UNFI	0.002	mg/L	C	U	UNFI	0.002	mg/L	C	U
Sodium	FILT	11.400	mg/L	C	-	UNFI	NA				UNFI	NA			
Sodium		NA				UNFI	10.700	mg/L	C	-	UNFI	6.940	mg/L	C	-
Thallium	FILT	0.001	mg/L	C	U	UNFI	NA				UNFI	NA			
Thallium		NA				UNFI	0.001	mg/L	C	U	UNFI	0.001	mg/L	C	U
Vanadium	FILT	0.012	mg/L	C	U	UNFI	NA				UNFI	NA			
Vanadium		NA				UNFI	0.008	mg/L	C	U	UNFI	0.008	mg/L	C	U
Zinc	FILT	0.005	mg/L	C	-	UNFI	NA				UNFI	NA			
Zinc		NA				UNFI	0.020	mg/L	C	-	UNFI	0.004	mg/L	C	U
<u>Volatile Organics</u>															
1,1,1-Trichloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,1,2,2-Tetrachloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,1,2-Trichloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,1-Dichloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,1-Dichloroethene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,2-Dichloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,2-Dichloroethene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,2-Dichloropropane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Butanone	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Hexanone	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
4-Methyl-2-pentanone	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Acetone	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	1.000	ug/L	C	R
Benzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Bromodichloromethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Bromoform	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Bromomethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Carbon Tetrachloride	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Carbon disulfide	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Chlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Chloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Chloroform	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Chloromethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	R
Dibromochloromethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Ethylbenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Methylene chloride	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Styrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Tetrachloroethene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Toluene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Trichloroethene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Vinyl Acetate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2385	2401				2943									
SAMPLE NUMBER	111998	116229				113003									
SAMPLING DATE	04/28/93	05/11/93				05/05/93									
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
Volatile Organics															
Vinyl chloride	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	UJ
Xylenes, Total	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
cis-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
trans-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Semivolatile Organics															
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,2-Dichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,3-Dichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,4-Dichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,4,5-Trichlorophenol	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U
2,4,6-Trichlorophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,4-Dichlorophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,4-Dimethylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,4-Dinitrophenol	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	UJ
2,4-Dinitrotoluene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,6-Dinitrotoluene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Chloronaphthalene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Chlorophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Methylnaphthalene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Methylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Nitroaniline	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U
2-Nitrophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
3,3'-Dichlorobenzidine	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
3-Nitroaniline	UNFI	25.000	ug/L	C	UJ	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U
4,6-Dinitro-2-methylphenol	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	R	UNFI	25.000	ug/L	C	U
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
4-Methylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
4-Nitroaniline	UNFI	25.000	ug/L	C	R	UNFI	25.000	ug/L	C	R	UNFI	25.000	ug/L	C	U
4-Nitrophenol	UNFI	25.000	ug/L	C	R	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	UJ
Acenaphthene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Acenaphthylene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Anthracene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(a)anthracene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(a)pyrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(b)fluoranthene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(g,h,i)perylene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzo(k)fluoranthene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Benzoic acid	UNFI	50.000	ug/L	C	U	UNFI	50.000	ug/L	C	U	UNFI	50.000	ug/L	C	UJ

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2385				2401				2943						
SAMPLE NUMBER	111998				116229				113003						
SAMPLING DATE	04/28/93				05/11/93				05/05/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>															
Benzyl alcohol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Butyl benzyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Carbazole	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Chrysene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
D1-n-butyl phthalate	UNFI	10.000	ug/L	C	J	UNFI	5.000	ug/L	C	J	UNFI	10.000	ug/L	C	J
D1-n-octyl phthalate	UNFI	10.000	ug/L	C	J	UNFI	10.000	ug/L	C	J	UNFI	10.000	ug/L	C	J
Dibenz(a,h)anthracene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Dibenzofuran	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Diethyl phthalate	UNFI	10.000	ug/L	C	J	UNFI	10.000	ug/L	C	J	UNFI	10.000	ug/L	C	J
Dimethyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Fluoranthene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Fluorene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Hexachlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Hexachlorobutadiene	UNFI	10.000	ug/L	C	J	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	J
Hexachlorocyclopentadiene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Hexachloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Indeno(1,2,3-cd)pyrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Isophorone	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
N-Nitroso-di-n-propylamine	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
N-Nitrosodiphenylamine	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Naphthalene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Nitrobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Pentachlorophenol	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U
Phenanthrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Phenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Pyrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
bis(2-Chloroethoxy)methane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
bis(2-Chloroethyl)ether	UNFI	10.000	ug/L	C	J	UNFI	10.000	ug/L	C	J	UNFI	10.000	ug/L	C	J
bis(2-Chloroisopropyl)ether	UNFI	10.000	ug/L	C	J	UNFI	10.000	ug/L	C	J	UNFI	10.000	ug/L	C	J
bis(2-Ethylhexyl) phthalate	UNFI	10.000	ug/L	C	U	UNFI	2.000	ug/L	C	J	UNFI	10.000	ug/L	C	U
p-Chloroaniline	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
<u>Pesticide Organics/PCBs</u>															
4,4'-DDD	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
4,4'-DDE	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
4,4'-DDT	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Aldrin	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
Aroclor-1016	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U
Aroclor-1221	UNFI	2.000	ug/L	C	U	UNFI	2.000	ug/L	C	U	UNFI	2.000	ug/L	C	U
Aroclor-1232	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U
Aroclor-1242	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U

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January 21, 1995

TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2385 111998				2401 116229				2943 113003			
SAMPLING DATE	04/28/93				05/11/93				05/05/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Pesticide Organics/PCBs</u>												
Aroclor-1248	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	C U
Aroclor-1254	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	C U
Aroclor-1260	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	C U	UNFI	1.000	ug/L	C U
Dieldrin	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U
Endosulfan II	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U
Endosulfan sulfate	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U
Endosulfan-I	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U
Endrin	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U
Endrin aldehyde	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U
Endrin ketone	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U	UNFI	0.100	ug/L	C U
Heptachlor	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U
Heptachlor epoxide	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U
Methoxychlor	UNFI	0.500	ug/L	C U	UNFI	0.500	ug/L	C U	UNFI	0.500	ug/L	C U
Toxaphene	UNFI	5.000	ug/L	C U	UNFI	5.000	ug/L	C U	UNFI	5.000	ug/L	C U
alpha-BHC	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C UJ
alpha-Chlordane	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U
beta-BHC	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U
delta-BHC	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C UJ
gamma-BHC (Lindane)	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U
gamma-Chlordane	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U	UNFI	0.050	ug/L	C U
<u>General Chemistry</u>												
Alkalinity	NA				UNFI	339.000	mg/kg	B -	UNFI	325.500	mg/L	B -
Alkalinity as CaCO3	UNFI	370.000	mg/L	B -	NA				NA			
Ammonia	UNFI	0.100	mg/L	B U	UNFI	0.100	mg/kg	B U	UNFI	0.120	mg/L	B -
Chloride	UNFI	21.030	mg/L	B -	UNFI	23.600	mg/kg	B -	UNFI	10.690	mg/L	B -
Fluoride	UNFI	0.120	mg/L	B -	UNFI	0.200	mg/kg	B -	UNFI	0.140	mg/L	B -
Nitrate	UNFI	1.570	mg/L	B J	NA				UNFI	1.130	mg/L	B J
Phenols	UNFI	0.010	mg/L	B U	UNFI	0.010	mg/kg	B U	UNFI	0.010	mg/L	B U
Phosphorus	UNFI	0.060	mg/L	B -	NA				NA			
Sulfate	UNFI	87.700	mg/L	B -	UNFI	53.500	mg/kg	B -	UNFI	43.700	mg/L	B -
Sulfide	UNFI	0.500	mg/L	B U	UNFI	0.500	mg/kg	B U	UNFI	0.500	mg/L	B U
Total Kjeldahl Nitrogen	UNFI	0.190	mg/L	B -	UNFI	0.160	mg/kg	B -	UNFI	0.100	mg/L	B -
Total Organic Carbon	UNFI	1.000	mg/L	B U	UNFI	1.000	mg/kg	B U	UNFI	1.000	mg/L	B U
Total Organic Halides	UNFI	0.010	mg/L	B U	UNFI	10.000	mg/kg	B U	UNFI	0.010	mg/L	B R
Total Organic Nitrogen	UNFI	0.190	mg/L	B -	UNFI	0.160	mg/kg	B -	UNFI	0.100	mg/L	B U
Total Phosphorous	NA				UNFI	0.070	mg/kg	B -	UNFI	0.050	mg/L	B -

TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2943			2943			2944			
SAMPLE NUMBER	113314			113315 DUPLICATE			113866			
SAMPLING DATE	05/27/93			05/27/93			06/30/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>										
Aluminum		NA					NA			
Aluminum	UNFI	0.906	mg/L	C	J	UNFI	0.567	mg/L	C	UJ
Antimony		NA					NA			
Antimony	UNFI	0.005	mg/L	C	U	UNFI	0.005	mg/L	C	UJ
Arsenic		NA					NA			
Arsenic	UNFI	0.003	mg/L	C	-	UNFI	0.002	mg/L	C	U
Barium		NA					NA			
Barium	UNFI	0.037	mg/L	C	-	UNFI	0.040	mg/L	C	-
Beryllium		NA					NA			
Beryllium	UNFI	0.002	mg/L	C	U	UNFI	0.002	mg/L	C	-
Cadmium		NA					NA			
Cadmium	UNFI	0.005	mg/L	C	U	UNFI	0.005	mg/L	C	UJ
Calcium		NA					NA			
Calcium	UNFI	101.000	mg/L	C	-	UNFI	105.000	mg/L	C	-
Chromium		NA					NA			
Chromium	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	U
Cobalt		NA					NA			
Cobalt	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	U
Copper		NA					NA			
Copper	UNFI	0.010	mg/L	C	UJ	UNFI	0.010	mg/L	C	UJ
Cyanide		NA					NA			
Iron		NA					NA			
Iron	UNFI	2.170	mg/L	C	J	UNFI	0.963	mg/L	C	J
Lead		NA					NA			
Lead	UNFI	0.003	mg/L	C	J	UNFI	0.002	mg/L	C	UJ
Magnesium		NA					NA			
Magnesium	UNFI	28.800	mg/L	C	-	UNFI	29.800	mg/L	C	-
Manganese		NA					NA			
Manganese	UNFI	0.080	mg/L	C	J	UNFI	0.058	mg/L	C	J
Mercury		NA					NA			
Mercury	UNFI	0.000	mg/L	C	U	UNFI	0.000	mg/L	C	U
Molybdenum		NA					NA			
Molybdenum	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	U
Nickel		NA					NA			
Nickel	UNFI	0.020	mg/L	C	U	UNFI	0.020	mg/L	C	U
Potassium		NA					NA			
Potassium	UNFI	2.280	mg/L	C	-	UNFI	2.400	mg/L	C	-
Selenium		NA					NA			
Selenium	UNFI	0.002	mg/L	C	U	UNFI	0.002	mg/L	C	U
Silicon		NA					NA			
Silicon	UNFI	4.990	mg/L	C	-	UNFI	5.040	mg/L	C	-
Silver		NA					NA			

TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2943 113314				2943 113315 DUPLICATE 05/27/93				2944 113866 06/30/93						
SAMPLE NUMBER	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
Inorganics															
Silver	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	U
Sodium		NA				UNFI	NA				FILT	6.210	mg/L	C	-
Sodium	UNFI	5.810	mg/L	C	-	UNFI	6.460	mg/L	C	-	UNFI	6.950	mg/L	C	-
Thallium		NA				NA					FILT	0.002	mg/L	C	UJ
Thallium	UNFI	0.002	mg/L	C	U	UNFI	0.002	mg/L	C	U	UNFI	0.002	mg/L	C	UJ
Vanadium		NA				NA					FILT	0.010	mg/L	C	R
Vanadium	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	U	UNFI	0.019	mg/L	C	J
Zinc		NA				NA					FILT	0.005	mg/L	C	U
Zinc	UNFI	0.011	mg/L	C	-	UNFI	0.011	mg/L	C	-	UNFI	0.080	mg/L	C	-
Volatile Organics															
1,1,1-Trichloroethane		NA				NA					UNFI	10.000	ug/L	C	U
1,1,2,2-Tetrachloroethane		NA				NA					UNFI	10.000	ug/L	C	U
1,1,2-Trichloroethane		NA				NA					UNFI	10.000	ug/L	C	U
1,1-Dichloroethane		NA				NA					UNFI	10.000	ug/L	C	U
1,1-Dichloroethene		NA				NA					UNFI	10.000	ug/L	C	U
1,2-Dichloroethane		NA				NA					UNFI	10.000	ug/L	C	U
1,2-Dichloroethene		NA				NA					UNFI	10.000	ug/L	C	U
1,2-Dichloropropane		NA				NA					UNFI	10.000	ug/L	C	U
2-Butanone		NA				NA					UNFI	10.000	ug/L	C	U
2-Hexanone		NA				NA					UNFI	10.000	ug/L	C	U
4-Methyl-2-pentanone		NA				NA					UNFI	10.000	ug/L	C	U
Acetone		NA				NA					UNFI	10.000	ug/L	C	U
Benzene		NA				NA					UNFI	10.000	ug/L	C	U
Bromodichloromethane		NA				NA					UNFI	10.000	ug/L	C	U
Bromoform		NA				NA					UNFI	10.000	ug/L	C	U
Bromomethane		NA				NA					UNFI	10.000	ug/L	C	U
Carbon Tetrachloride		NA				NA					UNFI	10.000	ug/L	C	U
Carbon disulfide		NA				NA					UNFI	10.000	ug/L	C	U
Chlorobenzene		NA				NA					UNFI	10.000	ug/L	C	U
Chloroethane		NA				NA					UNFI	10.000	ug/L	C	U
Chloroform		NA				NA					UNFI	10.000	ug/L	C	U
Chloromethane		NA				NA					UNFI	10.000	ug/L	C	U
Dibromochloromethane		NA				NA					UNFI	10.000	ug/L	C	U
Ethylbenzene		NA				NA					UNFI	10.000	ug/L	C	U
Methylene chloride		NA				NA					UNFI	10.000	ug/L	C	UJ
Styrene		NA				NA					UNFI	10.000	ug/L	C	U
Tetrachloroethene		NA				NA					UNFI	10.000	ug/L	C	U
Toluene		NA				NA					UNFI	10.000	ug/L	C	U
Trichloroethene		NA				NA					UNFI	10.000	ug/L	C	U
Vinyl chloride		NA				NA					UNFI	10.000	ug/L	C	U

TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2943	2943			2944
SAMPLE NUMBER	113314	113315 DUPLICATE 05/27/93			113866
SAMPLING DATE	05/27/93				06/30/93
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD
<u>Volatile Organics</u>					
Xylenes, Total		NA			UNFI
cis-1,3-Dichloropropene		NA			UNFI
trans-1,3-Dichloropropene		NA			UNFI
<u>Semivolatile Organics</u>					
1,2,4-Trichlorobenzene		NA			UNFI
1,2-Dichlorobenzene		NA			UNFI
1,3-Dichlorobenzene		NA			UNFI
1,4-Dichlorobenzene		NA			UNFI
2,4,5-Trichlorophenol		NA			UNFI
2,4,6-Trichlorophenol		NA			UNFI
2,4-Dichlorophenol		NA			UNFI
2,4-Dimethylphenol		NA			UNFI
2,4-Dinitrophenol		NA			UNFI
2,4-Dinitrotoluene		NA			UNFI
2,6-Dinitrotoluene		NA			UNFI
2-Benzyl-4-chlorophenol		NA			UNFI
2-Chloronaphthalene		NA			UNFI
2-Chlorophenol		NA			UNFI
2-Methylnaphthalene		NA			UNFI
2-Methylphenol		NA			UNFI
2-Nitroaniline		NA			UNFI
2-Nitrophenol		NA			UNFI
3,3'-Dichlorobenzidine		NA			UNFI
3-Nitroaniline		NA			UNFI
4,6-Dinitro-2-methylphenol		NA			UNFI
4-Bromophenyl phenyl ether		NA			UNFI
4-Chloro-3-methylphenol		NA			UNFI
4-Chlorophenylphenyl ether		NA			UNFI
4-Methylphenol		NA			UNFI
4-Nitroaniline		NA			UNFI
4-Nitrophenol		NA			UNFI
Acenaphthene		NA			UNFI
Acenaphthylene		NA			UNFI
Anthracene		NA			UNFI
Benzo(a)anthracene		NA			UNFI
Benzo(a)pyrene		NA			UNFI
Benzo(b)fluoranthene		NA			UNFI
Benzo(g,h,i)perylene		NA			UNFI
Benzo(k)fluoranthene		NA			UNFI
Benzoic acid		NA			UNFI

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000856

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2943	2943	2944			
SAMPLE NUMBER	113314	113315 DUPLICATE	113866			
SAMPLING DATE	05/27/93	05/27/93	06/30/93			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>						
Benzyl alcohol	NA	NA	UNFI	10.000 ug/L C U		
Butyl benzyl phthalate	NA	NA	UNFI	10.000 ug/L C U		
Carbazole	NA	NA	UNFI	10.000 ug/L C U		
Chrysene	NA	NA	UNFI	10.000 ug/L C U		
Di-n-butyl phthalate	NA	NA	UNFI	10.000 ug/L C U		
Di-n-octyl phthalate	NA	NA	UNFI	10.000 ug/L C U		
Dibenzo(a,h)anthracene	NA	NA	UNFI	10.000 ug/L C U		
Dibenzofuran	NA	NA	UNFI	10.000 ug/L C U		
Diethyl phthalate	NA	NA	UNFI	10.000 ug/L C U		
Dimethyl phthalate	NA	NA	UNFI	10.000 ug/L C U		
Fluoranthene	NA	NA	UNFI	10.000 ug/L C U		
Fluorene	NA	NA	UNFI	10.000 ug/L C U		
Hexachlorobenzene	NA	NA	UNFI	10.000 ug/L C U		
Hexachlorobutadiene	NA	NA	UNFI	10.000 ug/L C U		
Hexachlorocyclopentadiene	NA	NA	UNFI	10.000 ug/L C U		
Hexachloroethane	NA	NA	UNFI	10.000 ug/L C U		
Indeno(1,2,3-cd)pyrene	NA	NA	UNFI	10.000 ug/L C U		
Isophorone	NA	NA	UNFI	10.000 ug/L C U		
N-Nitroso-di-n-propylamine	NA	NA	UNFI	10.000 ug/L C U		
N-Nitrosodimethylamine	NA	NA	UNFI	10.000 ug/L C U		
N-Nitrosodiphenylamine	NA	NA	UNFI	10.000 ug/L C U		
Naphthalene	NA	NA	UNFI	10.000 ug/L C U		
Nitrobenzene	NA	NA	UNFI	10.000 ug/L C U		
Pentachlorophenol	NA	NA	UNFI	25.000 ug/L C U		
Phenanthrrene	NA	NA	UNFI	10.000 ug/L C U		
Phenol	NA	NA	UNFI	10.000 ug/L C U		
Pyrene	NA	NA	UNFI	10.000 ug/L C U		
Tributyl phosphate	NA	NA	UNFI	10.000 ug/L C U		
bis(2-Chloroethoxy)methane	NA	NA	UNFI	10.000 ug/L C U		
bis(2-Chloroethyl)ether	NA	NA	UNFI	10.000 ug/L C U		
bis(2-Chloroisopropyl) ether	NA	NA	UNFI	10.000 ug/L C U		
bis(2-Ethylhexyl) phthalate	NA	NA	UNFI	10.000 ug/L C U		
p-Chloraniline	NA	NA	UNFI	10.000 ug/L C U		
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	NA	NA	UNFI	0.100 ug/L C U		
4,4'-DDE	NA	NA	UNFI	0.100 ug/L C U		
4,4'-DDT	NA	NA	UNFI	0.100 ug/L C U		
Aldrin	NA	NA	UNFI	0.050 ug/L C U		
Aroclor-1016	NA	NA	UNFI	1.000 ug/L C U		
Aroclor-1221	NA	NA	UNFI	2.000 ug/L C U		

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000856

TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2943	2943	2944			
SAMPLE NUMBER	113314	113315 DUPLICATE	113866			
SAMPLING DATE	05/27/93	05/27/93	06/30/93			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Pesticide Organics/PCBs</u>						
Aroclor-1232	NA		NA	UNFI	1.000	ug/L C U
Aroclor-1242	NA		NA	UNFI	1.000	ug/L C U
Aroclor-1248	NA		NA	UNFI	1.000	ug/L C U
Aroclor-1254	NA		NA	UNFI	1.000	ug/L C U
Aroclor-1260	NA		NA	UNFI	1.000	ug/L C U
Dieldrin	NA		NA	UNFI	0.100	ug/L C U
Endosulfan II	NA		NA	UNFI	0.100	ug/L C U
Endosulfan sulfate	NA		NA	UNFI	0.100	ug/L C U
Endosulfan-I	NA		NA	UNFI	0.050	ug/L C U
Endrin	NA		NA	UNFI	0.100	ug/L C U
Endrin aldehyde	NA		NA	UNFI	0.100	ug/L C U
Endrin ketone	NA		NA	UNFI	0.100	ug/L C U
Heptachlor	NA		NA	UNFI	0.050	ug/L C U
Heptachlor epoxide	NA		NA	UNFI	0.050	ug/L C U
Methoxychlor	NA		NA	UNFI	0.500	ug/L C U
Toxaphene	NA		NA	UNFI	5.000	ug/L C U
alpha-BHC	NA		NA	UNFI	0.050	ug/L C U
alpha-Chlordane	NA		NA	UNFI	0.050	ug/L C U
beta-BHC	NA		NA	UNFI	0.050	ug/L C U
delta-BHC	NA		NA	UNFI	0.050	ug/L C U
gamma-BHC (Lindane)	NA		NA	UNFI	0.050	ug/L C U
gamma-Chlordane	NA		NA	UNFI	0.050	ug/L C U
<u>General Chemistry</u>						
Alkalinity	NA		NA	UNFI	412.000	mg/L B -
Ammonia	NA		NA	UNFI	0.100	mg/L B -
Chloride	NA		NA	UNFI	5.680	mg/L B -
Fluoride	NA		NA	UNFI	0.150	mg/L B -
Nitrate	NA		NA	UNFI	0.980	mg/L B -
Phenols	NA		NA	UNFI	0.010	mg/L B -
Sulfate	NA		NA	UNFI	46.700	mg/L B -
Sulfide	NA		NA	UNFI	0.500	mg/L B -
Total Kjeldahl Nitrogen	NA		NA	UNFI	0.240	mg/L B -
Total Organic Carbon	NA		NA	UNFI	1.000	mg/L B U
Total Organic Halides	NA		NA	UNFI	0.010	mg/L B U
Total Organic Nitrogen	NA		NA	UNFI	0.240	mg/L B -
Total Phosphorous	NA		NA	UNFI	0.980	mg/L B -

TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2945 112994				2945 113313				2954 113795			
SAMPLING DATE	04/28/93				05/26/93				06/21/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Inorganics</u>												
Aluminum		NA				NA			FILT	0.212	mg/L	C U
Aluminum	UNFI	0.113	mg/L	D -	UNFI	0.834	mg/L	C -	UNFI	0.223	mg/L	C U
Antimony		NA				NA			FILT	0.005	mg/L	C U
Antimony	UNFI	0.001	mg/L	D UJ	UNFI	0.005	mg/L	C U	UNFI	0.005	mg/L	C U
Arsenic		NA				NA			FILT	0.002	mg/L	C U
Arsenic	UNFI	0.001	mg/L	D UJ	UNFI	0.002	mg/L	C -	UNFI	0.002	mg/L	C U
Barium		NA				NA			FILT	0.080	mg/L	C -
Barium	UNFI	0.096	mg/L	D J	UNFI	0.089	mg/L	C -	UNFI	0.082	mg/L	C -
Beryllium		NA				NA			FILT	0.002	mg/L	C U
Beryllium	UNFI	0.002	mg/L	D U	UNFI	0.002	mg/L	C U	UNFI	0.002	mg/L	C U
Cadmium		NA				NA			FILT	0.005	mg/L	C U
Cadmium	UNFI	0.002	mg/L	D U	UNFI	0.005	mg/L	C U	UNFI	0.005	mg/L	C U
Calcium		NA				NA			FILT	147.000	mg/L	C -
Calcium	UNFI	166.000	mg/L	D -	UNFI	169.000	mg/L	C -	UNFI	146.000	mg/L	C -
Chromium		NA				NA			FILT	0.010	mg/L	C U
Chromium	UNFI	0.004	mg/L	D U	UNFI	0.010	mg/L	C U	UNFI	0.010	mg/L	C U
Cobalt		NA				NA			FILT	0.010	mg/L	C U
Cobalt	UNFI	0.003	mg/L	D U	UNFI	0.010	mg/L	C U	UNFI	0.010	mg/L	C U
Copper		NA				NA			FILT	0.010	mg/L	C U
Copper	UNFI	0.005	mg/L	D U	UNFI	0.010	mg/L	C UJ	UNFI	0.010	mg/L	C U
Cyanide		UNFI	0.001	mg/L	D U	NA			UNFI	0.002	mg/L	C U
Iron		NA				NA			FILT	0.020	mg/L	C U
Iron	UNFI	0.029	mg/L	D U	UNFI	2.520	mg/L	C -	UNFI	0.033	mg/L	C -
Lead		NA				NA			FILT	0.002	mg/L	C U
Lead	UNFI	0.001	mg/L	D U	UNFI	0.003	mg/L	C -	UNFI	0.002	mg/L	C U
Magnesium		NA				NA			FILT	33.100	mg/L	C -
Magnesium	UNFI	33.800	mg/L	D -	UNFI	32.100	mg/L	C -	UNFI	33.700	mg/L	C -
Manganese		NA				NA			FILT	0.050	mg/L	C -
Manganese	UNFI	0.023	mg/L	D -	UNFI	0.054	mg/L	C -	UNFI	0.055	mg/L	C -
Mercury		NA				NA			FILT	0.000	mg/L	C U
Mercury	UNFI	0.000	mg/L	D U	UNFI	0.000	mg/L	C U	UNFI	0.000	mg/L	C U
Molybdenum		NA				NA			FILT	0.010	mg/L	C U
Molybdenum	UNFI	0.003	mg/L	D U	UNFI	0.010	mg/L	C U	UNFI	0.010	mg/L	C U
Nickel		NA				NA			FILT	0.020	mg/L	C U
Nickel	UNFI	0.003	mg/L	D U	UNFI	0.020	mg/L	C U	UNFI	0.020	mg/L	C U
Potassium		NA				NA			FILT	4.110	mg/L	C -
Potassium	UNFI	2.740	mg/L	D -	UNFI	3.160	mg/L	C -	UNFI	3.970	mg/L	C -
Selenium		NA				NA			FILT	0.002	mg/L	C J
Selenium	UNFI	0.001	mg/L	D -	UNFI	0.002	mg/L	C U	UNFI	0.002	mg/L	C U
Silicon		NA				NA			FILT	5.590	mg/L	C -
Silicon	UNFI	6.920	mg/L	D -	UNFI	7.200	mg/L	C -	UNFI	5.670	mg/L	C -
Silver		NA				NA			FILT	0.010	mg/L	C U

TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2945 112994				2945 113313				2954 113795						
SAMPLE NUMBER	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
Inorganics															
Silver	UNFI	0.002	mg/L	D	U	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	U
Sodium		NA					NA				FILT	11.300	mg/L	C	-
Sodium	UNFI	4.090	mg/L	D	-	UNFI	5.810	mg/L	C	-	UNFI	11.500	mg/L	C	-
Thallium		NA					NA				FILT	0.010	mg/L	C	U
Thallium	UNFI	0.001	mg/L	D	U	UNFI	0.002	mg/L	C	U	UNFI	0.010	mg/L	C	U
Vanadium		NA					NA				FILT	0.010	mg/L	C	U
Vanadium	UNFI	0.014	mg/L	D	U	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	U
Zinc		NA					NA				FILT	0.007	mg/L	C	-
Zinc	UNFI	0.006	mg/L	D	U	UNFI	0.009	mg/L	C	-	UNFI	0.011	mg/L	C	-
Volatile Organics															
1,1,1-Trichloroethane	UNFI	1.000	ug/L	D	J		NA				UNFI	10.000	ug/L	C	U
1,1,2,2-Tetrachloroethane	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
1,1,2-Trichloroethane	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
1,1-Dichloroethane	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
1,1-Dichloroethene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
1,2-Dichloroethane	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
1,2-Dichloropropane	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
2-Butanone	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
2-Hexanone	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
4-Methyl-2-pentanone	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Acetone		3.000	ug/L	D	J		NA				UNFI	10.000	ug/L	C	U
Benzene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Bromodichloromethane	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Bromoform	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Bromomethane	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Carbon Tetrachloride	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Carbon disulfide	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Chlorobenzene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Chloroethane	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Chloroform	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Chloromethane	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Dibromochloromethane	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Ethylbenzene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Methylene chloride	UNFI	10.000	ug/L	D	U		NA				UNFI	15.000	ug/L	C	U
Styrene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Tetrachloroethene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Toluene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Trichloroethene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Vinyl Acetate	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U

NA

TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2945 112994				2945 113313				2954 113795						
SAMPLING DATE	04/28/93				05/26/93				06/21/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>															
Vinyl chloride	UNFI	10.000	ug/L	D	UJ		NA				UNFI	10.000	ug/L	C	U
Xylenes, Total	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
cis-1,3-Dichloropropene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
trans-1,3-Dichloropropene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
<u>Semivolatile Organics</u>															
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
1,2-Dichlorobenzene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
1,3-Dichlorobenzene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
1,4-Dichlorobenzene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
2,4,5-Trichlorophenol	UNFI	25.000	ug/L	D	U		NA				UNFI	25.000	ug/L	C	U
2,4,6-Trichlorophenol	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
2,4-Dichlorophenol	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
2,4-Dimethylphenol	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
2,4-Dinitrophenol	UNFI	50.000	ug/L	D	UJ		NA				UNFI	25.000	ug/L	C	UJ
2,4-Dinitrotoluene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
2,6-Dinitrotoluene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
2-Benzyl-4-chlorophenol	NA						NA				UNFI	10.000	ug/L	C	U
2-Chloronaphthalene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
2-Chlorophenol	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
2-Methylnaphthalene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
2-Methylphenol	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
2-Nitroaniline	UNFI	25.000	ug/L	D	U		NA				UNFI	25.000	ug/L	C	U
2-Nitropheno1	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
3,3'-Dichlorobenzidine	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
3-Nitroaniline	UNFI	25.000	ug/L	D	U		NA				UNFI	25.000	ug/L	C	U
4,6-Dinitro-2-methylphenol	UNFI	25.000	ug/L	D	U		NA				UNFI	25.000	ug/L	C	UJ
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
4-Methylphenol	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
4-Nitroaniline	UNFI	25.000	ug/L	D	U		NA				UNFI	25.000	ug/L	C	U
4-Nitropheno1	UNFI	25.000	ug/L	D	UJ		NA				UNFI	25.000	ug/L	C	U
Acenaphthene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Acenaphthylene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Anthracene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Benzo(a)anthracene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Benzo(a)pyrene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Benzo(b)fluoranthene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Benzo(g,h,i)perylene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U
Benzo(k)fluoranthene	UNFI	10.000	ug/L	D	U		NA				UNFI	10.000	ug/L	C	U

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TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2945	2945	2954			
SAMPLE NUMBER	112994	113313	113795			
SAMPLING DATE	04/28/93	05/26/93	06/21/93			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>						
Benzoic acid	UNFI	50.000 ug/L D UJ	NA	UNFI	50.000 ug/L C U	
Benzyl alcohol	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
Butyl benzyl phthalate	UNFI	1.000 ug/L D J	NA	UNFI	2.000 ug/L C J	
Carbazole	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
Chrysene	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
Di-n-butyl phthalate	UNFI	10.000 ug/L D UJ	NA	UNFI	10.000 ug/L C U	
Di-n-octyl phthalate	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
Dibenzo(a,h)anthracene	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
Dibenzofuran	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
Diethyl phthalate	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
Dimethyl phthalate	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
Fluoranthene	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
Fluorene	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
Hexachlorobenzene	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
Hexachlorobutadiene	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
Hexachlorocyclopentadiene	UNFI	10.000 ug/L D UJ	NA	UNFI	10.000 ug/L C U	
Hexachloroethane	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
Indeno(1,2,3-cd)pyrene	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
Isophorone	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
N-Nitroso-di-n-propylamine	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
N-Nitrosodimethylamine	NA		NA	UNFI	10.000 ug/L C U	
N-Nitrosodiphenylamine	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
Naphthalene	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
Nitrobenzene	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
Pentachlorophenol	UNFI	25.000 ug/L D U	NA	UNFI	25.000 ug/L C UJ	
Phenanthrone	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
Phenol	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
Pyrene	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
Tributyl phosphate	NA		NA	UNFI	10.000 ug/L C R	
bis(2-Chloroethoxy)methane	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
bis(2-Chloroethyl)ether	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
bis(2-Chloroisopropyl) ether	UNFI	10.000 ug/L D UJ	NA	UNFI	10.000 ug/L C UJ	
bis(2-Ethylhexyl) phthalate	UNFI	10.000 ug/L D U	NA	UNFI	6.000 ug/L C J	
p-Chloraniline	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C U	
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	UNFI	0.100 ug/L D U	NA	UNFI	0.100 ug/L C UJ	
4,4'-DDE	UNFI	0.100 ug/L D U	NA	UNFI	0.100 ug/L C UJ	
4,4'-DDT	UNFI	0.100 ug/L D U	NA	UNFI	0.100 ug/L C UJ	
Aldrin	UNFI	0.050 ug/L D U	NA	UNFI	0.050 ug/L C UJ	
Aroclor-1016	UNFI	1.000 ug/L D U	NA	UNFI	1.000 ug/L C U	

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January 21, 1995

TABLE F-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2945 112994				2945 113313				2954 113795						
SAMPLING DATE	04/28/93				05/26/93				06/21/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Pesticide Organics/PCBs</u>															
Aroclor-1221	UNFI	2.000	ug/L	D	U	NA					UNFI	2.000	ug/L	C	U
Aroclor-1232	UNFI	1.000	ug/L	D	U	NA					UNFI	1.000	ug/L	C	U
Aroclor-1242	UNFI	1.000	ug/L	D	U	NA					UNFI	1.000	ug/L	C	U
Aroclor-1248	UNFI	1.000	ug/L	D	U	NA					UNFI	1.000	ug/L	C	U
Aroclor-1254	UNFI	1.000	ug/L	D	U	NA					UNFI	1.000	ug/L	C	U
Aroclor-1260	UNFI	1.000	ug/L	D	U	NA					UNFI	1.000	ug/L	C	U
Dieldrin	UNFI	0.100	ug/L	D	U	NA					UNFI	0.100	ug/L	C	UJ
Endosulfan II	UNFI	0.100	ug/L	D	U	NA					UNFI	0.100	ug/L	C	UJ
Endosulfan sulfate	UNFI	0.100	ug/L	D	U	NA					UNFI	0.100	ug/L	C	UJ
Endosulfan-I	UNFI	0.050	ug/L	D	U	NA					UNFI	0.050	ug/L	C	UJ
Endrin	UNFI	0.100	ug/L	D	U	NA					UNFI	0.100	ug/L	C	UJ
Endrin aldehyde	UNFI	0.100	ug/L	D	U	NA					UNFI	0.100	ug/L	C	UJ
Endrin ketone	UNFI	0.100	ug/L	D	U	NA					UNFI	0.100	ug/L	C	UJ
Heptachlor	UNFI	0.050	ug/L	D	U	NA					UNFI	0.050	ug/L	C	UJ
Heptachlor epoxide	UNFI	0.050	ug/L	D	U	NA					UNFI	0.050	ug/L	C	UJ
Methoxychlor	UNFI	0.500	ug/L	D	U	NA					UNFI	0.500	ug/L	C	UJ
Toxaphene	UNFI	5.000	ug/L	D	U	NA					UNFI	5.000	ug/L	C	U
alpha-BHC	UNFI	0.050	ug/L	D	UJ	NA					UNFI	0.050	ug/L	C	UJ
alpha-Chlordane	UNFI	0.050	ug/L	D	U	NA					UNFI	0.050	ug/L	C	UJ
beta-BHC	UNFI	0.050	ug/L	D	U	NA					UNFI	0.050	ug/L	C	UJ
delta-BHC	UNFI	0.050	ug/L	D	UJ	NA					UNFI	0.050	ug/L	C	UJ
gamma-BHC (Lindane)	UNFI	0.050	ug/L	D	UJ	NA					UNFI	0.050	ug/L	C	UJ
gamma-Chlordane	UNFI	0.050	ug/L	D	U	NA					UNFI	0.050	ug/L	C	UJ
<u>General Chemistry</u>															
Alkalinity	UNFI	455.000	mg/L	B	-	NA					UNFI	420.000	mg/L	B	-
Ammonia		NA				NA					UNFI	0.100	mg/L	B	U
Chloride	UNFI	4.620	mg/L	B	-	NA					UNFI	20.800	mg/L	B	-
Fluoride	UNFI	0.510	mg/L	B	-	NA					UNFI	0.090	mg/L	B	-
Nitrate	UNFI	0.360	mg/L	B	J	NA					UNFI	2.040	mg/L	B	J
Phenols	UNFI	0.010	mg/L	B	U	NA					UNFI	0.010	mg/L	B	U
Phosphorus	UNFI	0.460	mg/L	B	-	NA					NA				
Sulfate	UNFI	69.700	mg/L	B	-	NA					UNFI	95.400	mg/L	B	-
Sulfide	UNFI	0.500	mg/L	B	U	NA					UNFI	0.500	mg/L	B	U
Total Kjeldahl Nitrogen	UNFI	0.320	mg/L	B	-	NA					UNFI	0.110	mg/L	B	-
Total Organic Carbon	UNFI	1.070	mg/L	B	-	NA					UNFI	1.000	mg/L	B	U
Total Organic Halides	UNFI	0.010	mg/L	B	U	NA					UNFI	0.010	mg/L	B	R
Total Organic Nitrogen	UNFI	0.320	mg/L	B	-	NA					UNFI	0.110	mg/L	B	-
Total Phosphorous		NA				NA					UNFI	0.070	mg/L	B	-

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TABLE F-11B
SOUTH FIELD
TENTATIVELY IDENTIFIED COMPOUNDS
WATER

Sample Number	Sample Location	Media	Parameter	Result	Units
110346	RINSATE	R	1,2-benzenedicarboxylic acid	3	ug/L
110422	TRIP BLANK	TB	1,2-benzenedicarboxylic acid	3	ug/L
113795	2954	GW	silane, methoxytrimethyl-	6	ug/L
113795	2954	GW	silanol, trimethyl-	7	ug/L
113795	2954	GW	ethene, 1,1'-oxybis-	3	ug/L
113795	2954	GW	hexanedioic acid, dioctyl es	8	ug/L
113795	2954	GW	indeno 2', 1':4,5 thieno 3,2-	14	ug/L
113798	1954	GW	heptane, 2,2,4,6,6-pentameth	8	ug/L
113798	1954	GW	1-hexanol, 2-ethyl-	58	ug/L
113798	1954	GW	nonane, 2,3-dimethyl-	230	ug/L
113798	1954	GW	phenol, 2,6-bis(1,1-dimethyl	3	ug/L
113798	1954	GW	hexadecane	3	ug/L
113798	1954	GW	1-decene, 3,4-dimethyl-	6	ug/L
113798	1954	GW	1h-indene, 2,3-dihydro-1,1,3	2	ug/L
113792	11085	GW	heptane, 2,2,4,6,6-pentameth	8	ug/L
113792	11085	GW	1-hexanol, 2-ethyl-	68	ug/L
113792	11085	GW	nonane, 2,3-dimethyl-	230	ug/L
113792	11085	GW	decane, 2,3,6-trimethyl-	2	ug/L
113792	11085	GW	octane, 1,1'-oxybis-	5	ug/L
113792	11085	GW	cyclotrisiloxane, hexamethyl	17	ug/L
113792	11085	GW	cyclotrisiloxane, hexamethyl	3	ug/L
113792	11085	GW	cyclotrisiloxane, hexamethyl	4	ug/L
113792	11085	GW	cyclotrisiloxane, hexamethyl	5	ug/L
113792	11085	GW	cyclotrisiloxane, hexamethyl	5	ug/L
113792	11085	GW	cyclotrisiloxane, hexamethyl	7	ug/L
113792	11085	GW	arsenos acid, tris(trimethyl	7	ug/L
113792	11085	GW	arsenos acid, tris(trimethyl	7	ug/L
113792	11085	GW	arsenos acid, tris(trimethyl	7	ug/L
113792	11085	GW	cyclotrisiloxane, hexamethyl	16	ug/L
113792	11085	GW	cyclotrisiloxane, hexamethyl	17	ug/L
113792	11085	GW	cyclotrisiloxane, hexamethyl	29	ug/L
113792	11085	GW	cyclotrisiloxane, hexamethyl	22	ug/L
113792	11085	GW	cyclotrisiloxane, hexamethyl	19	ug/L

R - rinsate

TB - trip blank

GW - groundwater

TABLE F-12
SOUTH FIELD
RI/FS TCLP RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1516	1712			1713			
SAMPLE NUMBER	055411	061319 1.5-2			061324 1.5-2			
SAMPLING DATE	05/19/90	05/04/91			05/04/91			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	
<u>Inorganics</u>								
Arsenic	0.219	mg/L	C	-	0.325	mg/L	C	-
Barium	0.207	mg/L	C	-	1.190	mg/L	C	-
Cadmium	0.020	mg/L	C	-	0.014	mg/L	C	-
Chromium	0.294	mg/L	C	-	0.077	mg/L	C	-
Lead	0.101	mg/L	C	-	0.200	mg/L	C	-
Mercury	0.000	mg/L	C	UJ	0.000	mg/L	C	UJ
Selenium	0.167	mg/L	C	-	0.400	mg/L	C	U
Silver	0.159	mg/L	C	-	0.142	mg/L	C	-
<u>Volatile Organics</u>								
1,1-Dichloroethane	5.000	ug/kg	C	U	5.000	ug/L	C	U
1,2-Dichloroethane	5.000	ug/kg	C	U	5.000	ug/L	C	U
2-Butanone	10.000	ug/kg	C	U	3.000	ug/L	C	JB
Benzene	5.000	ug/kg	C	U	5.000	ug/L	C	U
Carbon Tetrachloride	5.000	ug/kg	C	U	5.000	ug/L	C	U
Chlorobenzene	5.000	ug/kg	C	U	5.000	ug/L	C	U
Chloroform	5.000	ug/kg	C	U	5.000	ug/L	C	U
Pyridine	10.000	ug/L	C	R	20.000	ug/L	C	UJ
Tetrachloroethene	5.000	ug/kg	C	U	5.000	ug/L	C	U
Trichloroethene	5.000	ug/kg	C	U	5.000	ug/L	C	U
Vinyl chloride	10.000	ug/kg	C	U	10.000	ug/L	C	U
<u>Semivolatile Organics</u>								
1,4-Dichlorobenzene	10.000	ug/L	C	UJ	20.000	ug/L	C	U
2,4,5-Trichlorophenol	50.000	ug/L	C	UJ	100.000	ug/L	C	U
2,4,6-Trichlorophenol	10.000	ug/L	C	UJ	20.000	ug/L	C	U
2,4-Dinitrotoluene	10.000	ug/L	C	UJ	20.000	ug/L	C	U
2-Methylphenol	10.000	ug/L	C	UJ	20.000	ug/L	C	U
3-Methylphenol	10.000	ug/L	C	R	20.000	ug/L	C	U
4-Methylphenol	10.000	ug/L	C	UJ	20.000	ug/L	C	U
Hexachlorobenzene	10.000	ug/L	C	UJ	20.000	ug/L	C	U
Hexachlorobutadiene	10.000	ug/L	C	UJ	20.000	ug/L	C	U
Hexachloroethane	10.000	ug/L	C	UJ	20.000	ug/L	C	U
Nitrobenzene	10.000	ug/L	C	UJ	20.000	ug/L	C	U
Pentachlorophenol	50.000	ug/L	C	UJ	20.000	ug/L	C	U
<u>Herbicide Organics</u>								
2,4,5-TP (Silvex)	2.000	ug/L	C	UJ	1.800	ug/L	C	U
2,4-D	12.000	ug/L	C	UJ	12.000	ug/L	C	U

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TABLE F-12
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1516	SAMPLE NUMBER	055411	SAMPLING DATE	05/19/90	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Pesticide Organics/PCBs</u>																	
Chlordane	0.500	ug/L	C	UJ		NA					NA			NA			
Endrin	0.100	ug/L	C	UJ		0.100	ug/L	C	U		0.100	ug/L	C	U			
Heptachlor	0.050	ug/L	C	UJ		0.050	ug/L	C	U		0.050	ug/L	C	U			
Heptachlor epoxide	0.050	ug/L	C	UJ		0.050	ug/L	C	U		0.050	ug/L	C	U			
Methoxychlor	0.500	ug/L	C	UJ		0.500	ug/L	C	U		0.500	ug/L	C	U			
Toxaphene	1.000	ug/L	C	UJ		1.000	ug/L	C	U		1.000	ug/L	C	U			
alpha-Chlordane	NA					0.500	ug/L	C	U		0.500	ug/L	C	U			
gamma-BHC (Lindane)	0.050	ug/L	C	UJ		0.050	ug/L	C	U		0.050	ug/L	C	U			
gamma-Chlordane	NA					0.500	ug/L	C	U		0.500	ug/L	C	U			
<u>General Chemistry</u>																	
Combustion (BTU)	110.000	degree C	U			NA					NA			NA			
pH	8.780	stand C	-			NA					NA			NA			

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0000865

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TABLE F-12
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1714	1715	1792
SAMPLE NUMBER	061329	061334	067362
SAMPLING DATE	1.5-2 05/04/91	1.5-2 05/04/91	28-29.5 08/22/91
CHEMICAL PARAMETERS	RESULTS UNITS L VQ	RESULTS UNITS L VQ	RESULTS UNITS L VQ
<u>Inorganics</u>			
Arsenic	0.250 mg/L C U	0.120 mg/L C -	0.250 mg/L C U
Barium	1.040 mg/L C -	0.512 mg/L C -	0.867 mg/L C -
Cadmium	0.013 mg/L C -	0.002 mg/L C -	0.010 mg/L C U
Chromium	0.089 mg/L C -	0.021 mg/L C -	0.121 mg/L C -
Lead	0.200 mg/L C U	0.040 mg/L C U	0.151 mg/L C -
Mercury	0.000 mg/L C U	0.000 mg/L C U	0.000 mg/L C U
Selenium	0.400 mg/L C U	0.109 mg/L C -	0.161 mg/L C -
Silver	0.128 mg/L C -	0.024 mg/L C -	0.095 mg/L C -
<u>Volatile Organics</u>			
1,1-Dichloroethene	5.000 ug/L C U	5.000 ug/L C U	5.000 ug/L C U
1,2-Dichloroethane	5.000 ug/L C U	5.000 ug/L C U	5.000 ug/L C U
2-Butanone	3.000 ug/L C JB	2.000 ug/L C J	3.000 ug/L C J
Benzene	5.000 ug/L C U	5.000 ug/L C U	5.000 ug/L C U
Carbon Tetrachloride	5.000 ug/L C U	5.000 ug/L C U	5.000 ug/L C UJ
Chlorobenzene	5.000 ug/L C U	5.000 ug/L C U	5.000 ug/L C U
Chloroform	5.000 ug/L C U	1.000 ug/L C JB	5.000 ug/L C U
Pyridine	20.000 ug/L C U	20.000 ug/L C U	20.000 ug/L C U
Tetrachloroethene	5.000 ug/L C U	5.000 ug/L C U	1.000 ug/L C J
Trichloroethene	5.000 ug/L C U	5.000 ug/L C U	5.000 ug/L C U
Vinyl chloride	10.000 ug/L C U	10.000 ug/L C U	10.000 ug/L C U
<u>Semivolatile Organics</u>			
1,4-Dichlorobenzene	20.000 ug/L C U	20.000 ug/L C U	20.000 ug/L C U
2,4,5-Trichlorophenol	100.000 ug/L C U	100.000 ug/L C U	100.000 ug/L C U
2,4,6-Trichlorophenol	20.000 ug/L C U	20.000 ug/L C U	20.000 ug/L C U
2,4-Dinitrotoluene	20.000 ug/L C U	20.000 ug/L C U	20.000 ug/L C U
2-Methylphenol	20.000 ug/L C U	20.000 ug/L C U	20.000 ug/L C U
3-Methylphenol	20.000 ug/L C U	20.000 ug/L C U	20.000 ug/L C U
4-Methylphenol	20.000 ug/L C U	20.000 ug/L C U	20.000 ug/L C U
Hexachlorobenzene	20.000 ug/L C U	20.000 ug/L C U	20.000 ug/L C U
Hexachlorobutadiene	20.000 ug/L C U	20.000 ug/L C U	20.000 ug/L C U
Hexachloroethane	20.000 ug/L C U	20.000 ug/L C U	20.000 ug/L C U
Nitrobenzene	20.000 ug/L C U	20.000 ug/L C U	20.000 ug/L C U
Pentachlorophenol	13.000 ug/L C J	100.000 ug/L C U	100.000 ug/L C U
<u>Herbicide Organics</u>			
2,4,5-TP (Silvex)	1.800 ug/L C U	1.800 ug/L C U	1.800 ug/L C U
2,4-D	12.000 ug/L C U	12.000 ug/L C U	10.000 ug/L C U

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TABLE F-12
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1714	BORING NUMBER	1715	BORING NUMBER	1792							
SAMPLE NUMBER	061329	SAMPLE NUMBER	061334	SAMPLE NUMBER	067362							
SAMPLING DATE	1-5-2 05/04/91	SAMPLING DATE	1-5-2 05/04/91	SAMPLING DATE	28-29-5 08/22/91							
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Pesticide Organics/PCBs</u>												
Endrin	0.100	ug/L	C	U	0.100	ug/L	C	U	0.100	ug/L	C	U
Heptachlor	0.050	ug/L	C	U	0.050	ug/L	C	U	0.050	ug/L	C	U
Heptachlor epoxide	0.050	ug/L	C	U	0.050	ug/L	C	U	0.050	ug/L	C	UJ
Methoxychlor	0.500	ug/L	C	U	0.500	ug/L	C	U	0.500	ug/L	C	U
Toxaphene	1.000	ug/L	C	U	1.000	ug/L	C	U	1.000	ug/L	C	U
alpha-Chlordane	0.500	ug/L	C	U	0.500	ug/L	C	U	0.500	ug/L	C	UJ
gamma-BHC (Lindane)	0.050	ug/L	C	U	0.050	ug/L	C	U	0.050	ug/L	C	UJ
gamma-Chlordane	0.500	ug/L	C	U	0.500	ug/L	C	U	0.500	ug/L	C	UJ

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000867

TABLE F-12
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1793		1794		1795	
SAMPLE NUMBER	067335		067326		067367	
SAMPLING DATE	6-7-5		1-5-2		0-1	
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS
Aluminum	NA				10900.000	mg/kg D -
Antimony	NA				10.200	mg/kg D J
Arsenic	0.250	mg/L	C	U	4.000	mg/kg D -
Barium	0.690	mg/L	C	-	78.400	mg/kg D -
Beryllium	NA				0.770	mg/kg D -
Boron	NA				23.100	mg/kg D - C
Cadmium	0.015	mg/L	C	-	0.007	mg/L D -
Calcium	NA				31500.000	mg/kg D -
Chromium	0.122	mg/L	C	-	0.092	mg/L D -
Cobalt	NA				13.200	mg/kg D -
Copper	NA				18.000	mg/kg D -
Cyanide	NA				0.110	mg/kg D C
Iron	NA				20000.000	mg/kg D -
Lead	0.157	mg/L	C	-	10.500	mg/kg D -
Magnesium	NA				9930.000	mg/kg D -
Manganese	NA				358.000	mg/kg D - C
Mercury	0.000	mg/L	C	U	0.000	mg/L D -
Molybdenum	NA				14.500	mg/kg D -
Nickel	NA				21.800	mg/kg D -
Potassium	NA				925.000	mg/kg D -
Selenium	0.169	mg/L	C	-	0.129	mg/L D -
Silicon	NA				1530.000	mg/kg D -
Silver	0.093	mg/L	C	-	0.080	mg/L D C
Sodium	NA				101.000	mg/kg D C
Thallium	NA				0.450	mg/kg D C
Vanadium	NA				26.300	mg/kg D -
Zinc	NA				48.400	mg/kg D -
<u>Volatile Organics</u>						
1,1,1-Trichloroethane	NA				6.000	ug/kg D U
1,1,2,2-Tetrachloroethane	NA				6.000	ug/kg D U
1,1,2-Trichloroethane	NA				6.000	ug/kg D U
1,1-Dichloroethane	NA				6.000	ug/kg D U
1,1-Dichloroethene	5.000	ug/L	C	U	6.000	ug/kg D U
1,2-Dichloroethane	5.000	ug/L	C	U	6.000	ug/kg D U
1,2-Dichloroethene	NA				6.000	ug/kg D U
1,2-Dichloropropane	NA				6.000	ug/kg D U
2-Butanone	2.000	ug/L	C	J	2.000	ug/L C U
2-Hexanone	NA				NA	
4-Methyl-2-pentanone	NA				11.000	ug/kg D U
Acetone	NA				11.000	ug/kg D U
	NA				11.000	ug/kg D C
	NA				5.000	ug/kg D C

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TABLE F-12
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1793	SAMPLE NUMBER	067335	SAMPLING DATE	6-7-5 08/20/91	1794	067326	1.5-2 08/13/91	1795	067367	0-1 08/23/91	
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
Benzene	5.000	ug/L	C	U	5.000	ug/L	C	U	6.000	ug/kg	D	U
Bromodichloromethane	NA				NA				6.000	ug/kg	D	U
Bromoform	NA				NA				6.000	ug/kg	D	U
Bromomethane	NA				NA				11.000	ug/kg	D	U
Carbon Tetrachloride	5.000	ug/L	C	UJ	5.000	ug/L	C	U	6.000	ug/kg	D	UJ
Carbon disulfide	NA				NA				6.000	ug/kg	D	U
Chlorobenzene	5.000	ug/L	C	U	5.000	ug/L	C	U	6.000	ug/kg	D	U
Chloroethane	NA				NA				6.000	ug/kg	D	U
Chloroform	5.000	ug/L	C	U	5.000	ug/L	C	U	6.000	ug/kg	D	U
Chloromethane	NA				NA				11.000	ug/kg	D	U
Dibromochloromethane	NA				NA				6.000	ug/kg	D	U
Ethylbenzene	NA				NA				6.000	ug/kg	D	U
Methylene chloride	NA				NA				9.000	ug/kg	D	UJ
Pyridine	20.000	ug/L	C	U	20.000	ug/L	C	U	20.000	ug/L	D	U
Styrene	NA				NA				6.000	ug/kg	D	U
Tetrachloroethene	5.000	ug/L	C	U	5.000	ug/L	C	U	6.000	ug/kg	D	U
Toluene	NA				NA				6.000	ug/kg	D	U
Trichloroethene	5.000	ug/L	C	U	5.000	ug/L	C	U	6.000	ug/kg	D	U
Vinyl Acetate	NA				NA				11.000	ug/kg	D	U
Vinyl chloride	10.000	ug/L	C	U	10.000	ug/L	C	U	11.000	ug/kg	D	UJ
Xylenes, Total	NA				NA				6.000	ug/kg	D	U
cis-1,3-Dichloropropene	NA				NA				6.000	ug/kg	D	U
trans-1,3-Dichloropropene	NA				NA				6.000	ug/kg	D	U
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	NA				NA				390.000	ug/kg	D	U
1,2-Dichlorobenzene	NA				NA				390.000	ug/kg	D	U
1,3-Dichlorobenzene	NA				NA				390.000	ug/kg	D	U
1,4-Dichlorobenzene	20.000	ug/L	C	U	20.000	ug/L	C	U	20.000	ug/L	D	U
2,4,5-Trichlorophenol	100.000	ug/L	C	U	100.000	ug/L	C	U	100.000	ug/L	D	U
2,4,6-Trichlorophenol	20.000	ug/L	C	U	20.000	ug/L	C	U	390.000	ug/kg	D	U
2,4-Dichlorophenol	NA				NA				390.000	ug/kg	D	U
2,4-Dimethylphenol	NA				NA				390.000	ug/kg	D	U
2,4-Dinitrophenol	NA				NA				390.000	ug/kg	D	U
2,4-Dinitrotoluene	20.000	ug/L	C	U	20.000	ug/L	C	U	1900.000	ug/kg	D	U
2,6-Dinitrotoluene	NA				NA				390.000	ug/kg	D	U
2-Chloronaphthalene	NA				NA				390.000	ug/kg	D	U
2-Chlorophenol	NA				NA				390.000	ug/kg	D	U
2-Methylnaphthalene	NA				NA				390.000	ug/kg	D	U
2-Methylphenol	20.000	ug/L	C	U	20.000	ug/L	C	U	390.000	ug/kg	D	U
2-Nitroaniline	NA				NA				1900.000	ug/kg	D	U

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000869

TABLE F-12
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1793	1794	1795
SAMPLE NUMBER	067335	067326	067367
SAMPLING DATE	6-7-5 08/20/91	1.5-2 08/13/91	0-1 08/23/91
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
2-Nitrophenol	NA		390.000 ug/kg D U
3,3'-Dichlorobenzidine	NA		770.000 ug/kg D UJ
3-Methylphenol	20.000 ug/L C U		20.000 ug/L D U
3-Nitroaniline	NA		1900.000 ug/kg D U
4,6-Dinitro-2-methylphenol	NA		1900.000 ug/kg D U
4-Bromophenyl phenyl ether	NA		390.000 ug/kg D U
4-Chloro-3-methylphenol	NA		390.000 ug/kg D U
4-Chlorophenylphenyl ether	NA		390.000 ug/kg D U
4-Methylphenol	20.000 ug/L C U		390.000 ug/kg D U
4-Nitroaniline	NA		1900.000 ug/kg D U
4-Nitrophenol	NA		1900.000 ug/kg D U
Acenaphthene	NA		390.000 ug/kg D U
Acenaphthylene	NA		390.000 ug/kg D U
Anthracene	NA		58.000 ug/kg D J
Benzo(a)anthracene	NA		270.000 ug/kg D J
Benzo(a)pyrene	NA		120.000 ug/kg D J
Benzo(b)fluoranthene	NA		360.000 ug/kg D J
Benzo(g,h,i)perylene	NA		100.000 ug/kg D J
Benzo(k)fluoranthene	NA		390.000 ug/kg D U
Benzoic acid	NA		1900.000 ug/kg D UJ
Benzyl alcohol	NA		390.000 ug/kg D U
Butyl benzyl phthalate	NA		390.000 ug/kg D U
Chrysene	NA		300.000 ug/kg D J
Di-n-butyl phthalate	NA		390.000 ug/kg D U
Di-n-octyl phthalate	NA		390.000 ug/kg D U
Dibenzo(a,h)anthracene	NA		390.000 ug/kg D U
Dibenzofuran	NA		390.000 ug/kg D U
Diethyl phthalate	NA		390.000 ug/kg D U
Dimethyl phthalate	NA		390.000 ug/kg D U
Fluoranthene	NA		610.000 ug/kg D U
Fluorene	NA		390.000 ug/kg D U
Hexachlorobenzene	20.000 ug/L C U		390.000 ug/kg D U
Hexachlorobutadiene	20.000 ug/L C U		390.000 ug/kg D U
Hexachlorocyclopentadiene	NA		390.000 ug/kg D U
Hexachloroethane	20.000 ug/L C U		390.000 ug/kg D U
Indeno(1,2,3-cd)pyrene	NA		390.000 ug/kg D U
Isophorone	NA		84.000 ug/kg D J
Methyl parathion	NA		390.000 ug/kg D U
N-Nitroso-di-n-propylamine	NA		100.000 ug/kg C UJ
N-Nitrosodiphenylamine	NA		390.000 ug/kg D U
Naphthalene	NA		390.000 ug/kg D U
Nitrobenzene	20.000 ug/L C U		390.000 ug/kg D U

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TABLE F-12
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1793	1794	1795
SAMPLE NUMBER	067335	067326	067367
SAMPLING DATE	6-7.5 08/20/91	1.5-2 08/13/91	0-1 08/23/91
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
O,O,O-Triethylphosphorothioate	NA		100.000 ug/kg D UJ
Parathion	NA		100.000 ug/kg C UJ
Pentachlorophenol	100.000 ug/L C U		100.000 ug/L D U
Phenanthrene	NA		370.000 ug/kg D J
Phenol	NA		390.000 ug/kg D U
Pyrene	NA		500.000 ug/kg D -
Sulfotep	NA		100.000 ug/kg C UJ
bis(2-Chloroethoxy)methane	NA		390.000 ug/kg D U
bis(2-Chloroethyl)ether	NA		390.000 ug/kg D U
bis(2-Chloroisopropyl) ether	NA		390.000 ug/kg D U
bis(2-Ethylhexyl) phthalate	NA		390.000 ug/kg D U
p-Chloroaniline	NA		390.000 ug/kg D U
<u>Herbicide Organics</u>			
2,4,5-TP (Silvex)	1.800 ug/L C U		1.800 ug/L D U
2,4-D	10.000 ug/L C U		10.000 ug/L D U
<u>Pesticide Organics/PCBs</u>			
4,4'-DDD	NA		19.000 ug/kg D U
4,4'-DDE	NA		19.000 ug/kg D U
4,4'-DDT	NA		19.000 ug/kg D U
Aldrin	NA		9.500 ug/kg D U
Aroclor-1016	NA		95.000 ug/kg D U
Aroclor-1221	NA		95.000 ug/kg D U
Aroclor-1232	NA		95.000 ug/kg D U
Aroclor-1242	NA		95.000 ug/kg D U
Aroclor-1248	NA		95.000 ug/kg D U
Aroclor-1254	NA		190.000 ug/kg D U
Aroclor-1260	NA		190.000 ug/kg D U
Chlordane	0.500 ug/L C U	NA	0.500 ug/L D U
Dieldrin	NA		19.000 ug/kg D U
Dimethoate	NA		100.000 ug/kg C UJ
Disulfoton	NA		100.000 ug/kg C UJ
Endosulfan II	NA		19.000 ug/kg D U
Endosulfan sulfate	NA		19.000 ug/kg D U
Endosulfan-I	NA		9.500 ug/kg D U
Endrin	0.100 ug/L C U	0.100 ug/L C U	0.100 ug/L D U
Endrin ketone	NA	NA	19.000 ug/kg D U
Ethion	NA		100.000 ug/kg C UJ
Famphur	NA		100.000 ug/kg C UJ

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TABLE F-12
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1793	1794	1795
SAMPLE NUMBER	067335	067326	067367
SAMPLING DATE	6-7-5 08/20/91	1.5-2 08/13/91	0-1 08/23/91
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Pesticide Organics/PCBs</u>			
Heptachlor	0.050	ug/L C U	0.050
Heptachlor epoxide	0.050	ug/L C UJ	0.050
Methoxychlor	0.500	ug/L C U	0.500
Phorate	NA		NA
Thionazin	NA		NA
Toxaphene	1.000	ug/L C U	1.000
alpha-BHC	NA		NA
alpha-Chlordane	0.500	ug/L C UJ	0.500
beta-BHC	NA		NA
delta-BHC	NA		NA
gamma-BHC (Lindane)	0.050	ug/L C UJ	0.050
gamma-Chlordane	0.500	ug/L C UJ	0.500
<u>Dioxin/Furan</u>			
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	NA		0.190
1,2,3,4,6,7,8-Heptachlorodibenzofuran	NA		0.050
1,2,3,4,7,8,9-Heptachlorodibenzo-furan	NA		0.070
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	NA		0.110
1,2,3,4,7,8-Hexachlorodibenzofuran	NA		0.048
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	NA		0.090
1,2,3,6,7,8-Hexachlorodibenzofuran	NA		0.043
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	NA		0.095
1,2,3,7,8,9-Hexachlorodibenzofuran	NA		0.055
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	NA		0.120
1,2,3,7,8-Pentachlorodibenzofuran	NA		0.032
2,3,4,6,7,8-Hexachlorodibenzo-furan	NA		0.050
2,3,4,7,8-Pentachlorodibenzo-furan	NA		0.035
2,3,7,8-TCDD	NA		0.210
2,3,7,8-TCDF	NA		0.280
Heptachlorodibenzo-p-dioxin	NA		0.190
Heptachlorodibenzofuran	NA		0.060
Hexachlorodibenzo-p-dioxin	NA		0.100
Hexachlorodibenzofuran	NA		0.049
Octachlorodibenzo-p-dioxin	NA		2.900
Octachlorodibenzofuran	NA		0.075
Pentachlorodibenzo-p-dioxin	NA		0.120
Pentachlorodibenzofuran	NA		0.034
Tetrachlorodibenzo-p-dioxin	NA		0.022
Tetrachlorodibenzofuran	NA		0.027

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TABLE F-12
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1795	SAMPLE NUMBER	067369	SAMPLING DATE	2-3 08/23/91	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>																	
1,1-Dichloroethene	5.000	ug/L	C	U						5.000	ug/L	C	U				
1,2-Dichloroethane	5.000	ug/L	C	U						5.000	ug/L	C	U				
2-Butanone	10.000	ug/L	C	R						4.000	ug/L	C	U				
Benzene	5.000	ug/L	C	U						5.000	ug/L	C	U				
Carbon Tetrachloride	5.000	ug/L	C	U						5.000	ug/L	C	U				
Chlorobenzene	5.000	ug/L	C	U						5.000	ug/L	C	U				
Chloroform	5.000	ug/L	C	U						5.000	ug/L	C	U				
Pyridine	NA									20.000	ug/L	C	U				
Tetrachloroethene	5.000	ug/L	C	U						5.000	ug/L	C	U				
Trichloroethene	5.000	ug/L	C	U						5.000	ug/L	C	U				
Vinyl chloride	10.000	ug/L	C	U						10.000	ug/L	C	U				
<u>Semivolatile Organics</u>																	
1,4-Dichlorobenzene	NA									20.000	ug/L	C	U				
2,4,5-Trichlorophenol	NA									100.000	ug/L	C	U				
2,4,6-Trichlorophenol	NA									20.000	ug/L	C	U				
2,4-Dinitrotoluene	NA									20.000	ug/L	C	U				
2-Methylphenol	NA									20.000	ug/L	C	U				
3-Methylphenol	NA									20.000	ug/L	C	U				
4-Methylphenol	NA									20.000	ug/L	C	U				
Hexachlorobenzene	NA									20.000	ug/L	C	U				
Hexachlorobutadiene	NA									20.000	ug/L	C	U				
Hexachloroethane	NA									20.000	ug/L	C	U				
Nitrobenzene	NA									20.000	ug/L	C	U				
Pentachlorophenol	NA									100.000	ug/L	C	U				

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TABLE F-12
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1884			1885		
SAMPLE NUMBER	067804			067803		
SAMPLING DATE	1.5-2 02/22/92			1.5-2 02/22/92		
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS
<u>Volatile Organics</u>						
1,1-Dichloroethene	5.000	ug/L	C	U	5.000	ug/L
1,2-Dichloroethane	5.000	ug/L	C	U	5.000	ug/L
2-Butanone	2.000	ug/L	C	J	10.000	ug/L
Benzene	5.000	ug/L	C	U	5.000	ug/L
Carbon Tetrachloride	5.000	ug/L	C	U	5.000	ug/L
Chlorobenzene	5.000	ug/L	C	U	5.000	ug/L
Chloroform	5.000	ug/L	C	U	5.000	ug/L
Pyridine	20.000	ug/L	C	U	20.000	ug/L
Tetrachloroethene	5.000	ug/L	C	U	5.000	ug/L
Trichloroethene	5.000	ug/L	C	U	5.000	ug/L
Vinyl chloride	10.000	ug/L	C	U	10.000	ug/L
<u>Semivolatile Organics</u>						
1,4-Dichlorobenzene	20.000	ug/L	C	U	20.000	ug/L
2,4,5-Trichlorophenol	100.000	ug/L	C	U	100.000	ug/L
2,4,6-Trichlorophenol	20.000	ug/L	C	U	20.000	ug/L
2,4-Dinitrotoluene	20.000	ug/L	C	U	20.000	ug/L
2-Methylphenol	20.000	ug/L	C	R	20.000	ug/L
3-Methylphenol	20.000	ug/L	C	R	20.000	ug/L
4-Methylphenol	20.000	ug/L	C	U	20.000	ug/L
Hexachlorobenzene	20.000	ug/L	C	U	20.000	ug/L
Hexachlorobutadiene	20.000	ug/L	C	U	20.000	ug/L
Hexachloroethane	20.000	ug/L	C	U	20.000	ug/L
Nitrobenzene	20.000	ug/L	C	U	20.000	ug/L
Pentachlorophenol	100.000	ug/L	C	U	100.000	ug/L

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TABLE F-13

TABLE F-13
SOUTH FIELD
RI/FS QUALITY CONTROL SAMPLES
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - RADIOLOGICAL PARAMETERS

QC TYPE	RINSATE
SAMPLE NUMBER	008034
ASSOCIATED SAMPLES	008014, 008024, 008028
SAMPLING DATE	02/09/88
RADIOLOGICAL PARAMETERS	RESULTS UNITS VQ
NP-237	1.000 pCi/L U
PU-238	1.000 pCi/L U
PU-239/240	1.000 pCi/L U
RA-226	1.000 pCi/L U
RA-228	3.000 pCi/L U
SR-90	5.000 pCi/L U
TC-99	30.000 pCi/L U
TH-228	1.000 pCi/L U
TH-230	1.000 pCi/L U
TH-232	1.000 pCi/L U
U-234	1.200 pCi/L U
U-235/236	1.000 pCi/L U
U-238	1.000 pCi/L U
U-TOTAL	2.000 ug/L U

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TABLE F-13
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	RINSATE			
SAMPLE NUMBER	008034			
ASSOCIATED SAMPLES	008014, 008024, 008028			
SAMPLING DATE	02/09/88			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ
<u>Inorganics</u>				
Arsenic	0.200	mg/L	3	UJ
Barium	0.010	mg/L	3	J
Cadmium	0.005	mg/L	3	UJ
Calcium	1.710	mg/L	3	J
Chromium	0.020	mg/L	3	UJ
Copper	0.010	mg/L	3	UJ
Iron	0.100	mg/L	3	J
Lead	0.050	mg/L	3	UJ
Magnesium	0.190	mg/L	3	J
Manganese	0.020	mg/L	3	UJ
Mercury	0.000	mg/L	3	U
Molybdenum	0.020	mg/L	3	UJ
Nickel	0.020	mg/L	3	UJ
Selenium	0.200	mg/L	3	UJ
Silver	0.010	mg/L	3	UJ
Sodium	0.750	mg/L	3	UJ
<u>Semivolatile Organics</u>				
Phenol	0.010	mg/L	3	J
<u>General Chemistry</u>				
Chloride	1.000	mg/L	3	U
Fluoride	0.100	mg/L	3	U
Hexavalent Chromium	0.010	mg/L	3	R
Nitrate	0.425	mg/L	3	R
Sulfate	4.200	mg/L	3	-

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0008376

TABLE F-13
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

QC TYPE	FIELD BLANK			RINSATE			RINSATE		
SAMPLE NUMBER	113317			110346			113321		
ASSOCIATED SAMPLES	113320			110392, 110396, 110385, 110389			113319		
SAMPLING DATE	05/28/93			03/22/93			06/03/93		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	16.000	pCi/L	UJ	14.000	pCi/L	UJ	16.700	pCi/L	UJ
GROSS ALPHA	0.400	pCi/L	UJ	0.510	pCi/L	UJ	0.498	pCi/L	UJ
GROSS BETA	1.000	pCi/L	UJ	1.010	pCi/L	UJ	0.995	pCi/L	UJ
NP-237	1.460	pCi/L	N	0.075	pCi/L	R	0.616	pCi/L	N
PU-238	1.660	pCi/L	U	0.029	pCi/L	UJ	0.410	pCi/L	J
PU-239/240	1.810	pCi/L	J	0.061	pCi/L	UJ	0.220	pCi/L	J
RA-226	0.110	pCi/L	UJ	0.035	pCi/L	UJ	0.143	pCi/L	UJ
RA-228	1.960	pCi/L	UJ	2.560	pCi/L	UJ	2.450	pCi/L	U
RU-106	158.000	pCi/L	UJ	165.000	pCi/L	UJ	130.000	pCi/L	UJ
SR-90	0.590	pCi/L	UJ	1.400	pCi/L	UJ	0.805	pCi/L	UJ
TC-99	12.900	pCi/L	UJ	1.370	pCi/L	U	7.800	pCi/L	UJ
TH-228	0.480	pCi/L	UJ	0.400	pCi/L	UJ	0.165	pCi/L	UJ
TH-230	1.965	pCi/L	J	0.420	pCi/L	UJ	0.271	pCi/L	U
TH-232	0.320	pCi/L	UJ	0.210	pCi/L	UJ	0.057	pCi/L	UJ
TH-TOTAL	2.900	ug/L	UJ	1.930	ug/L	UJ	0.526	ug/L	UJ
U-234	0.110	pCi/L	UJ	0.433	pCi/L	U	0.125	pCi/L	UJ
U-235/236	0.071	pCi/L	J	0.170	pCi/L	UJ	0.049	pCi/L	UJ
U-238	0.130	pCi/L	UJ	0.296	pCi/L	U	0.039	pCi/L	UJ
U-TOTAL	1.000	ug/L	U	5.000	ug/L	U	1.000	ug/L	U

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TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK				FIELD BLANK				FIELD BLANK			
SAMPLE NUMBER	112885				110310				113299			
ASSOCIATED SAMPLES	112883				110312, 110315				112013, 112014, 113294			
SAMPLING DATE	04/22/93				03/18/93				05/04/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	UJ
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.004	mg/L	C	J	0.010	mg/L	C	U	0.010	mg/L	C	UJ
2-Hexanone	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.039	mg/L	C	-	0.010	mg/L	C	U	0.009	mg/L	C	R
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	UJ
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	UJ
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.003	mg/L	C	J
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	UJ
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	UJ
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	UJ
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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000878

TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	FIELD BLANK			RINSATE			RINSATE					
SAMPLE NUMBER	113317			110346			113321					
ASSOCIATED SAMPLES	113320			110392, 110396, 110385, 110389			113319					
SAMPLING DATE	05/28/93			03/22/93			06/03/93					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS			
<u>Inorganics</u>												
Aluminum	0.084	mg/L	C	U	0.080	mg/L	C	U	0.036	mg/L	C	U
Antimony	0.005	mg/L	C	UJ	0.005	mg/L	C	U	0.005	mg/L	C	R
Arsenic	0.002	mg/L	C	R	0.031	mg/L	C	J	0.002	mg/L	C	R
Barium	0.002	mg/L	C	U	0.002	mg/L	C	U	0.002	mg/L	C	U
Beryllium	0.002	mg/L	C	UJ	0.002	mg/L	C	U	0.002	mg/L	C	UJ
Cadmium	0.005	mg/L	C	UJ	0.005	mg/L	C	U	0.005	mg/L	C	UJ
Calcium	0.020	mg/L	C	UJ	0.267	mg/L	C	U	0.020	mg/L	C	UJ
Chromium	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	U
Cobalt	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Copper	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Cyanide	0.002	mg/L	C	U	0.002	mg/L	C	U	0.002	mg/L	C	U
Iron	0.020	mg/L	C	U	0.020	mg/L	C	U	0.020	mg/L	C	U
Lead	0.002	mg/L	C	U	0.002	mg/L	C	U	0.002	mg/L	C	U
Magnesium	0.050	mg/L	C	U	0.050	mg/L	C	U	0.050	mg/L	C	U
Manganese	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Mercury	0.000	mg/L	C	U	0.000	mg/L	C	U	0.000	mg/L	C	U
Molybdenum	0.010	mg/L	C	U	0.020	mg/L	C	U	0.010	mg/L	C	U
Nickel	0.020	mg/L	C	UJ	0.020	mg/L	C	U	0.020	mg/L	C	UJ
Potassium	0.100	mg/L	C	UJ	0.100	mg/L	C	U	0.100	mg/L	C	U
Selenium	0.002	mg/L	C	UJ	0.006	mg/L	C	U	0.002	mg/L	C	UJ
Silicon	0.185	mg/L	C	UJ	0.100	mg/L	C	U	0.062	mg/L	C	UJ
Silver	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Sodium	0.100	mg/L	C	U	0.100	mg/L	C	U	0.100	mg/L	C	U
Thallium	0.002	mg/L	C	UJ	0.002	mg/L	C	U	0.002	mg/L	C	UJ
Vanadium	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Zinc	0.005	mg/L	C	UJ	0.018	mg/L	C	-	0.006	mg/L	C	-
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	U
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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FEMP-OU02-6 FINAL
January 21, 1995

TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	FIELD BLANK				RINSATE				RINSATE			
SAMPLE NUMBER	113317				110346				113321			
ASSOCIATED SAMPLES	113320				110392, 110396, 110385, 110389				113319			
SAMPLING DATE	05/28/93				03/22/93				06/03/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.007	mg/L	C	U	0.001	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Diphenylhydrazine	NA				0.010	mg/L	C	U	NA			
1,3-Dichlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,4-Dichlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2,4,5-Trichlorophenol	0.025	mg/L	C	U	0.025	mg/L	C	U	0.025	mg/L	C	U
2,4,6-Trichlorophenol	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2,4-Dichlorophenol	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2,4-Dimethylphenol	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2,4-Dinitrophenol	0.025	mg/L	C	U	0.050	mg/L	C	U	0.025	mg/L	C	U
2,4-Dinitrotoluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2,6-Dinitrotoluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Benzyl-4-chlorophenol	NA				NA				0.010	mg/L	C	U
2-Chloronaphthalene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Chlorophenol	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Methylnaphthalene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Methylphenol	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Nitroaniline	0.025	mg/L	C	U	0.025	mg/L	C	U	0.025	mg/L	C	U

TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	FIELD BLANK				RINSATE				RINSATE			
SAMPLE NUMBER	113317				110346				113321			
ASSOCIATED SAMPLES	113320				110392, 110396, 110385, 110389				113319			
SAMPLING DATE	05/28/93				03/22/93				06/03/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
2-Nitrophenol	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
3,3'-Dichlorobenzidine	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
3-Nitroaniline	0.025	mg/L	C	R	0.025	mg/L	C	U	0.025	mg/L	C	U
4,6-Dinitro-2-methylphenol	0.025	mg/L	C	U	0.025	mg/L	C	U	0.025	mg/L	C	U
Bromophenyl phenyl ether	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Chloro-3-methylphenol	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Chlorophenylphenyl ether	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methylphenol	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Nitroaniline	0.025	mg/L	C	U	0.025	mg/L	C	U	0.025	mg/L	C	U
4-Nitrophenol	0.025	mg/L	C	U	0.025	mg/L	C	U	0.025	mg/L	C	U
Acenaphthene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acenaphthylene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Anthracene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Benzo(a)anthracene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Benzo(a)pyrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Benzo(b)fluoranthene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Benzo(g,h,i)perylene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Benzo(k)fluoranthene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Benzoic acid	NA				0.050	mg/L	C	U	0.050	mg/L	C	U
Benzyl alcohol	NA				0.010	mg/L	C	U	0.010	mg/L	C	R
Butyl benzyl phthalate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbazole	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chrysene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Di-n-butyl phthalate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Di-n-octyl phthalate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibenz(a,h)anthracene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibenzofuran	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Diethyl phthalate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dimethyl phthalate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Fluoranthen	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Fluorene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Hexachlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Hexachlorobutadiene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Hexachlorocyclopentadiene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Hexachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Indeno(1,2,3-cd)pyrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Isophorone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
N-Nitroso-di-n-propylamine	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
N-Nitrosodimethylamine	NA				0.010	mg/L	C	U	0.010	mg/L	C	U
N-Nitrosodiphenylamine	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Naphthalene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Nitrobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	FIELD BLANK				RINSATE				RINSATE			
SAMPLE NUMBER	113317				110346				113321			
ASSOCIATED SAMPLES	113320				110392, 110396, 110385, 110389				113319			
SAMPLING DATE	05/28/93				03/22/93				06/03/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
Pentachlorophenol	0.025	mg/L	C	U	0.025	mg/L	C	U	0.025	mg/L	C	U
Phenanthere	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Phenol	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Pyrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tributyl phosphate	NA				0.010	mg/L	C	U	0.010	mg/L	C	U
bis(2-Chloroethoxy)methane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
bis(2-Chloroethyl)ether	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
bis(2-Chloroisopropyl) ether	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
bis(2-Ethylhexyl) phthalate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
p-Chloroaniline	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	U
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	0.000	mg/L	C	U	0.000	mg/L	C	U	0.000	mg/L	C	U
4,4'-DDE	0.000	mg/L	C	U	0.000	mg/L	C	U	0.000	mg/L	C	U
4,4'-DDT	0.000	mg/L	C	U	0.000	mg/L	C	U	0.000	mg/L	C	U
Aldrin	0.000	mg/L	C	U	0.000	mg/L	C	U	0.000	mg/L	C	U
Aroclor-1016	0.001	mg/L	C	U	0.001	mg/L	C	UJ	0.001	mg/L	C	U
Aroclor-1221	0.002	mg/L	C	U	0.002	mg/L	C	UJ	0.002	mg/L	C	U
Aroclor-1232	0.001	mg/L	C	U	0.001	mg/L	C	UJ	0.001	mg/L	C	U
Aroclor-1242	0.001	mg/L	C	U	0.001	mg/L	C	UJ	0.001	mg/L	C	U
Aroclor-1248	0.001	mg/L	C	U	0.001	mg/L	C	UJ	0.001	mg/L	C	U
Aroclor-1254	0.001	mg/L	C	U	0.001	mg/L	C	UJ	0.001	mg/L	C	U
Aroclor-1260	0.001	mg/L	C	U	0.001	mg/L	C	UJ	0.001	mg/L	C	U
Dieldrin	0.000	mg/L	C	U	0.000	mg/L	C	U	0.000	mg/L	C	U
Endosulfan II	0.000	mg/L	C	U	0.000	mg/L	C	U	0.000	mg/L	C	U
Endosulfan sulfate	0.000	mg/L	C	U	0.000	mg/L	C	U	0.000	mg/L	C	U
Endosulfan-I	0.000	mg/L	C	U	0.000	mg/L	C	U	0.000	mg/L	C	U
Endrin	0.000	mg/L	C	U	0.000	mg/L	C	U	0.000	mg/L	C	U
Endrin aldehyde	0.000	mg/L	C	U	0.000	mg/L	C	U	0.000	mg/L	C	UJ
Endrin ketone	0.000	mg/L	C	U	0.000	mg/L	C	U	0.000	mg/L	C	U
Heptachlor	0.000	mg/L	C	U	0.000	mg/L	C	U	0.000	mg/L	C	U
Heptachlor epoxide	0.000	mg/L	C	U	0.000	mg/L	C	U	0.000	mg/L	C	U
Methoxychlor	0.001	mg/L	C	U	0.001	mg/L	C	U	0.001	mg/L	C	U
Toxaphene	0.005	mg/L	C	U	0.005	mg/L	C	U	0.005	mg/L	C	U
alpha-BHC	0.000	mg/L	C	U	0.000	mg/L	C	U	0.000	mg/L	C	U
alpha-Chlordane	0.000	mg/L	C	U	0.000	mg/L	C	U	0.000	mg/L	C	U
beta-BHC	0.000	mg/L	C	U	0.000	mg/L	C	U	0.000	mg/L	C	U
delta-BHC	0.000	mg/L	C	U	0.000	mg/L	C	U	0.000	mg/L	C	UJ
gamma-BHC (Lindane)	0.000	mg/L	C	U	0.000	mg/L	C	U	0.000	mg/L	C	U
gamma-Chlordane	0.000	mg/L	C	U	0.000	mg/L	C	U	0.000	mg/L	C	U
<u>General Chemistry</u>												
Alkalinity	2.600	mg/L	B	U	NA				2.400	mg/L	B	-

TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	FIELD BLAN			RINSATE			RINSATE		
SAMPLE NUMBER	113317			110346			113321		
ASSOCIATED SAMPLES	113320			110392, 110396, 110385, 110389			113319		
SAMPLING DATE	05/28/93			03/22/93			06/03/93		
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS
<u>General Chemistry</u>									
Ammonia	0.100	mg/L	C	U	NA				0.100
Chloride	0.500	mg/L	C	U	NA				0.500
Fluoride	0.050	mg/L	B	U	NA				0.050
Nitrate	0.100	mg/L	B	R	NA				0.100
Phenols	0.010	mg/L	B	U	NA				0.010
Sulfate	2.000	mg/L	B	U	NA				2.000
Sulfide	0.500	mg/L	B	U	NA				23.300
Total Kjeldahl Nitrogen	NA				NA				0.500
Total Organic Carbon	1.000	mg/L	B	U	NA				1.000
Total Organic Halides	0.010	mg/L	C	R	NA				0.010
Total Organic Nitrogen	0.100	mg/L	C	U	NA				0.100
Total Phosphorous	0.040	mg/L	C	J	NA				0.020

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TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK			TRIP BLANK			TRIP BLANK					
SAMPLE NUMBER	113106	110288		110291	110290,	110294	03/19/93					
ASSOCIATED SAMPLES	113104, 113105	110287		03/18/93								
SAMPLING DATE	05/28/93											
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.010	mg/L	C	U	0.022	mg/L	C	J	0.027	mg/L	C	J
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.003	mg/L	C	J
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK			TRIP BLANK			TRIP BLANK					
SAMPLE NUMBER	110298	C	U	110300	C	U	110308	C	U			
ASSOCIATED SAMPLES	110297	C	U	110301	C	U	110307	C	U			
SAMPLING DATE	03/18/93			03/19/93			03/18/93					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
Volatile Organics												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.033	mg/L	C	J	0.038	mg/L	C	J	0.029	mg/L	C	J
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.003	mg/L	C	J	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK			TRIP BLANK			TRIP BLANK					
SAMPLE NUMBER	110311			110320			110325					
ASSOCIATED SAMPLES	110312, 110315			110317, 110321			110324, 110327					
SAMPLING DATE	03/19/93			03/19/93			03/22/93					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS			
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.038	mg/L	C	U	0.051	mg/L	C	U	0.029	mg/L	C	U
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.003	mg/L	C	U	0.003	mg/L	C	U	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK				TRIP BLANK				TRIP BLANK			
SAMPLE NUMBER	110334				110347				110352			
ASSOCIATED SAMPLES	110331, 110335, 110338, 110339				110304, 110348				110351, 110355			
SAMPLING DATE	03/22/93				03/19/93				03/22/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.050	mg/L	C	J	0.031	mg/L	C	J	0.067	mg/L	C	J
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.001	mg/L	C	J	0.003	mg/L	C	J	0.002	mg/L	C	J
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	J	0.010	mg/L	C	U	0.010	mg/L	C	J
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK				TRIP BLANK				TRIP BLANK			
SAMPLE NUMBER	110361				110381				110388			
ASSOCIATED SAMPLES	110358, 110362, 110372, 110373				110378, 110382				110385, 110389			
SAMPLING DATE	03/22/93				03/19/93				03/22/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.026	mg/L	C	J	0.098	mg/L	C	-	0.055	mg/L	C	J
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.003	mg/L	C	J	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	UJ
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	UJ
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK				TRIP BLANK				TRIP BLANK			
SAMPLE NUMBER	110395				110404				110414			
ASSOCIATED SAMPLES	110392, 110396				110405, 110406				110413, 110415			
SAMPLING DATE	03/22/93				03/24/93				03/24/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
Volatile Organics												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.034	mg/L	C	J	0.020	mg/L	C	U	0.017	mg/L	C	U
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.001	mg/L	C	J	0.009	mg/L	C	J	0.008	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylibenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK				TRIP BLANK				TRIP BLANK			
SAMPLE NUMBER	110423				110426				110431			
ASSOCIATED SAMPLES	110422				110425				110430, 110428			
SAMPLING DATE	03/24/93				03/24/93				03/25/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.021	mg/L	C	U	0.020	mg/L	C	U	0.010	mg/L	C	U
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.011	mg/L	C	J	0.008	mg/L	C	J
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlormethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK				TRIP BLANK				TRIP BLANK			
SAMPLE NUMBER	110433				110561				110563			
ASSOCIATED SAMPLES	110432				110547, 110556				110571			
SAMPLING DATE	03/25/93				04/02/93				04/06/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.008	mg/L	C	U	0.004	mg/L	C	U	0.003	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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FEMP-QU02-6 FINAL
January 21, 1995

TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK				TRIP BLANK				TRIP BLANK			
SAMPLE NUMBER	110581				110582				112011			
ASSOCIATED SAMPLES	110579				110584, 112494				112008, 113291			
SAMPLING DATE	04/07/93				04/08/93				05/03/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.014	mg/L	C	J	0.008	mg/L	C	J	0.006	mg/L	C	J
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	UJ
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.005	mg/L	C	J	0.005	mg/L	C	J	0.010	mg/L	C	UJ
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	UJ
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	UJ
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK			TRIP BLANK			TRIP BLANK		
SAMPLE NUMBER	112499			112517			112529		
ASSOCIATED SAMPLES	112507, 112514			112520, 112526			112536, 112593		
SAMPLING DATE	04/12/93			04/13/93			04/15/93		
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ	RESULTS	UNITS	L VQ	RESULTS	UNITS	L VQ
<u>Volatile Organics</u>									
1,1,1-Trichloroethane	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
1,1,2-Trichloroethane	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
1,1-Dichloroethane	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
1,1-Dichloroethene	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
1,2-Dichloroethane	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
1,2-Dichloroethene	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
1,2-Dichloropropane	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
2-Butanone	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
2-Hexanone	0.010	mg/L	C UJ	0.010	mg/L	C UJ	0.010	mg/L	C UJ
4-Methyl-2-pentanone	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Acetone	0.053	mg/L	C U	0.037	mg/L	C U	0.054	mg/L	C U
Benzene	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Bromodichloromethane	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Bromoform	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Bromomethane	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Carbon Tetrachloride	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Carbon disulfide	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Chlorobenzene	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Chloroethane	0.004	mg/L	C J	0.005	mg/L	C J	0.004	mg/L	C J
Chloroform	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Chloromethane	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Dibromochloromethane	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Ethybenzene	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Methylene chloride	0.010	mg/L	C UJ	0.010	mg/L	C UJ	0.010	mg/L	C UJ
Styrene	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Tetrachloroethene	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Toluene	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Trichloroethene	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Vinyl Acetate	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Vinyl chloride	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Xylenes, Total	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
cis-1,3-Dichloropropene	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
trans-1,3-Dichloropropene	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U

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000893

TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK			TRIP BLANK			TRIP BLANK					
SAMPLE NUMBER	112552			112567			112637					
ASSOCIATED SAMPLES	112545, 112550			112584, 112588			112696					
SAMPLING DATE	04/13/93			04/16/93			04/18/93					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.051	mg/L	C	U	0.010	mg/L	C	U	0.045	mg/L	C	U
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.004	mg/L	C	U	0.002	mg/L	C	U	0.004	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.026	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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FEMP-OOU2-6 FINAL
January 21, 1995

TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK				TRIP BLANK				TRIP BLANK			
SAMPLE NUMBER	112642				112687				112733			
ASSOCIATED SAMPLES	112648, 112685				112690, 112893				112731			
SAMPLING DATE	04/17/93				04/18/93				04/19/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pantanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.086	mg/L	C	U	0.018	mg/L	C	U	0.045	mg/L	C	U
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.002	mg/L	C	U	0.009	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.005	mg/L	C	U	0.005	mg/L	C	U	0.004	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.026	mg/L	C	U	0.037	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK			TRIP BLANK			TRIP BLANK					
SAMPLE NUMBER	112734			112757			112853					
ASSOCIATED SAMPLES	112737			112763			112835, 112849					
SAMPLING DATE	04/20/93			04/21/93			04/20/93					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS			
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ
4-Methyl-2-pentanone	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ
Acetone	0.035	mg/L	C	-	0.038	mg/L	C	-	0.044	mg/L	C	-
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.003	mg/L	C	J	0.003	mg/L	C	J	0.004	mg/L	C	J
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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0005596

TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK				TRIP BLANK				TRIP BLANK			
SAMPLE NUMBER	112877				112995				112998			
ASSOCIATED SAMPLES	112859				112994				112997			
SAMPLING DATE	04/21/93				04/28/93				04/30/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.021	mg/L	C	U	0.005	mg/L	C	U	0.013	mg/L	C	-
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.012	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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000897

TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK				TRIP BLANK				TRIP BLANK			
SAMPLE NUMBER	113002				113004				113294			
ASSOCIATED SAMPLES	113000				113003				112013, 112014, 113299			
SAMPLING DATE	05/01/93				05/05/93				05/04/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.010	mg/L	C	U	0.004	mg/L	C	R	0.004	mg/L	C	R
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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000898

TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK			TRIP BLANK			TRIP BLANK					
SAMPLE NUMBER	113300			113320			113719					
ASSOCIATED SAMPLES	112013, 112014, 113294			113317			113718					
SAMPLING DATE	05/04/93			05/28/93			06/03/93					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS			
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
1,1-Dichloroethane	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	R
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
2-Butanone	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	R
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
4-Methyl-2-pantanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
Acetone	0.005	mg/L	C	R	0.010	mg/L	C	U	0.010	mg/L	C	R
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
Carbon disulfide	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	R
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
Chloroethane	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	R
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
Methylene chloride	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	R
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
Vinyl chloride	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	R
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R

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TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK			TRIP BLANK			TRIP BLANK					
SAMPLE NUMBER	113723			113793			113796					
ASSOCIATED SAMPLES	113722			113792			113795					
SAMPLING DATE	06/16/93			06/16/93			06/21/93					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS			
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	R	0.010	mg/L	C	R	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	R	0.010	mg/L	C	R	0.010	mg/L	C	U
Acetone	0.010	mg/L	C	R	0.010	mg/L	C	R	0.006	mg/L	C	J
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	R	0.010	mg/L	C	R	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.020	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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January 21, 1995

TABLE F-13
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK			TRIP BLANK			TRIP BLANK					
SAMPLE NUMBER	113867	C	U	116232	C	U	116236	C	U			
ASSOCIATED SAMPLES	113866	C	U	116229	C	U	116233	C	U			
SAMPLING DATE	06/30/93			05/11/93			05/11/93					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	NA				0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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0000301

TABLE F-14

TABLE F-14
SOUTH FIELD
ON-SITE LABORATORY SCREENING RESULTS
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SURFACE WATER SCREENING SAMPLES

Location	Sample No.	Description	Date Collected	Total Uranium ($\mu\text{g/L}$)
SF-SW-01	110424	Surface Water	3/24/93	400
SF-SW-02	110434	Surface Water	3/25/93	540
SF-SW-05	113489	Surface Water	5/06/93	160
SF-SW-06	113490	Surface Water	5/06/93	250
SF-SW-07	113666	Surface Water	5/15/93	110
11018	112633	Surface Water at Hydropunch	4/17/93	560

GROUNDWATER SCREENING SAMPLES

Location	Sample No.	Description	Sample Interval (ft.) ^a	Date Collected	Total Uranium ($\mu\text{g/L}$)	Total Thorium ($\mu\text{g/L}$)	Radium-226/228 (pCi/g)	Lead ($\mu\text{g/L}$)
TRENCH 5	113807	Groundwater from Trench	6.0	7/9/93	500	400	<0.0021/1.6	- ^b
1046	116235	Existing MW ^c	NA ^d	5/11/93	21	-	-	-
1065	113292	Existing MW	NA	5/04/93	1.4	-	-	-
1065	113293	Existing MW	NA	5/04/93	1.3	-	-	-
1941	112999	New MW	NA	4/30/93	540	-	-	-
1942	110645	New MW	NA	4/15/93	55	-	-	-
1942	113001	New MW	NA	5/01/93	320	-	-	-
1954	113800	New MW	NA	6/22/93	44	-	-	-
2014	111994	Existing MW	NA	4/30/93	11	-	-	-
2046	116234	Existing MW	NA	5/11/93	470	-	-	-
2065	112009	Existing MW	NA	5/03/93	11	-	-	-
2065	112012	Existing MW	NA	5/03/93	11	-	-	-
2385	111999	Existing MW	NA	4/28/93	100	-	-	-
2401	116230	Existing MW	NA	5/11/93	4.8	-	-	-

See footnotes at end of table

TABLE F-14
(Continued)

GROUNDWATER SCREENING SAMPLES
(Continued)

Location	Sample No.	Description	Sample Interval (ft.) ^a	Date Collected	Total Uranium ($\mu\text{g/L}$)	Total Thorium ($\mu\text{g/L}$)	Radium-226/228 (pCi/g)	Lead ($\mu\text{g/L}$)
2943	113005	New MW	NA	5/05/93	3.5	-	-	-
2944	113868	New MW	NA	6/30/93	1.8	-	-	-
2945	112996	New MW	NA	4/28/93	2100	-	-	-
2954	113224	Hydropunch	60.0	5/28/93	760	-	-	-
2954	113797	New MW	NA	6/21/93	1200	-	-	-
11009	110597	Hydropunch	9.0-14.0	4/07/93	110	-	-	-
11010	110526	Hydropunch	9.0-13.0	4/05/93	14	-	-	-
11012	110714	Hydropunch	10.0-14.0	4/08/93	360	-	-	-
11013	112809	Hydropunch	5.5-9.5	4/17/93	22	-	-	-
11014	110487	Hydropunch	5.0-9.0	3/30/93	580	-	-	-
11015	110465	Hydropunch	8.0	3/25/93	270	-	-	-
11016	112829	Hydropunch	5.5-9.5	4/18/93	20	-	-	-
11018	112634	Hydropunch	21.0-24.0	4/17/93	700	-	-	-
11019	113050	Hydropunch	21.0-25.0	5/12/93	150	-	-	-
11020	113046	Hydropunch	19.0-23.0	5/11/93	75	-	-	-
11021	113054	Hydropunch	21.0-25.0	5/13/93	120	-	-	-
11022	113058	Hydropunch	21.0-25.0	5/13/93	4.2	-	-	17.9
11023	113062	Hydropunch	21.0-25.0	5/14/93	12	-	-	4.7
11024	113067	Hydropunch	6.5-10.5	5/15/93	540	-	-	-
11025	113071	Hydropunch	6.5-10.5	5/15/93	32	-	-	-
11026	113145	Hydropunch	10.0-14.5	5/15/93	7.8	-	-	-
11027	113104	Hydropunch	12.0-16.0	5/14/93	87	-	-	-
11028	113242	Hydropunch	55.0	5/25/93	210	-	-	35.1
11029	113007	Hydropunch	40.0-42.0	5/06/93	93	-	-	-
11030	116361	Hydropunch	62.0-67.0	6/01/93	54	-	-	30
11030	116362	Hydropunch	62.0-67.0	6/01/93	25	-	-	26.2
11032	113817	Hydropunch	8.0-12.0	6/24/93	17	-	-	-
11032	113870	New MW	NA	6/30/93	7.2	-	-	-

See footnotes at end of table

TABLE F-14
(Continued)**GROUNDWATER SCREENING SAMPLES**
(Continued)

Location	Sample No.	Description	Sample Interval (ft.) ^a	Date Collected	Total Uranium ($\mu\text{g/L}$)	Total Thorium ($\mu\text{g/L}$)	Radium-226/228 (pCi/g)	Lead ($\mu\text{g/L}$)
11082	113693	Hydropunch	9.0-13.0	6/03/93	26	-	-	-
11083	113679	Hydropunch	9.0-13.0	6/02/93	<2	-	-	-
11084	113288	Hydropunch	10.5-14.5	6/01/93	19	-	-	-
11085	113794	New MW	NA	6/16/93	5000	-	-	-

SEDIMENT SCREENING SAMPLES

Location	Sample No.	Date Collected	Total Uranium (mg/kg)	Total Thorium (mg/kg)
SF-SD-01	110429	3/24/93	<11	-
SF-SD-02	110435	3/25/93	<11	-
SF-SD-03	110436	3/25/93	67	26

SURFACE SCREENING SAMPLES

Location	Sample No.	Sample Interval (ft)	Date Collected	Total Uranium (mg/kg)
11010	110511	0.0-0.5	4/2/93	68
11012	110687	0.0-0.5	4/7/93	122
11017	110488	0.0-0.5	4/1/93	<11

SUBSURFACE SCREENING SAMPLES

Location	Sample No.	Sample Interval (ft)	Date Collected	Total Uranium (mg/kg)	Total Thorium (mg/kg)	Radium-226/228 (pCi/g)
TRENCH 1	113716	2.0	6/3/93	143	-	-
TRENCH 2	113724	5.5	6/9/93	724	<18	12 / 0.7
TRENCH 2	113725	6.0	6/9/93	34	3540	9.3 / 85
TRENCH 4	113720	3.5	6/16/93	951	-	-
1941	112784	13.0-13.5	4/26/93	<11	-	-
1942	110644	17.5-18.0	4/15/93	<11	-	-
1964	112686	30.5-31.0	4/17/93	<11	-	-
1965	112764	28.0-28.5	4/21/93	<11	-	-
1966	112884	25.0-25.5	4/22/93	<11	-	-

See footnotes at end of table

TABLE F-14
(Continued)

SUBSURFACE SCREENING SAMPLES (Continued)

Location	Sample No.	Sample Interval (ft)	Date Collected	Total Uranium (mg/kg)	Total Thorium (mg/kg)	Radium-226/228 (pCi/g)
1967	112732	31.0-31.5	4/19/93	<11	-	-
1968	112852	17.5-18.0	4/20/93	<11	-	-
1969	112566	13.5-14.0	4/15/93	<11	-	-
1970	112894	10.5-11.0	4/18/93	<11	-	-
1971	112594	11.0-11.5	4/15/93	<11	-	-
1972	112497	10.0-10.5	4/8/93	<11	-	-
1975	112551	10.0-10.5	4/13/93	<11	-	-
1977	110580	18.0-18.5	4/7/93	<11	-	-
1978	112589	15.0-15.5	4/16/93	<11	-	-
2943	110767	50.0-65.0	4/16/93	<11	-	-
2944	113769	50.0-65.0	6/14/93	<11	-	-
2954	113223	45.0-60.0	5/27/93	<11	-	-
11007	110678	22.5-23.0	4/21/93	<11	-	-
11009	110530	3.5-4.0	4/6/93	69	222	-
11009	110596	15.5-16.0	4/7/93	<11	-	-
11010	110525	13.5-14.0	4/5/93	<11	-	-
11011	110607	10.5-11.0	4/8/93	165	28	-
11011	110618	18.0-18.5	4/8/93	26	-	-
11012	110712	13.5-14.0	4/8/93	<11	-	-
11012	110713	14.0-14.5	4/8/93	<11	-	-
11013	112811	9.5-10.0	4/17/93	<11	-	-
11014	110470	1.0-1.5	3/30/93	14	<18	-
11014	110486	10.0-10.5	3/30/93	<11	-	-
11015	110437	0.5-1.0	3/25/93	<11	<18	-
11015	110464	14.5-15.0	3/25/93	<11	-	-
11016	112832	10.0-10.5	4/18/93	<11	-	-
11017	110510	16.5-17.0	4/1/93	<11	-	-
11018	112636	24.5-25.0	4/17/93	<11	-	-
11027	113102	16.5-18.0	5/12/93	<11	-	-

See footnotes at end of table

TABLE F-14
(Continued)**SUBSURFACE SCREENING SAMPLES (Continued)**

Location	Sample No.	Sample Interval (ft)	Date Collected	Total Uranium (mg/kg)	Total Thorium (mg/kg)	Radium-226/228 (pCi/g)
11186 (1973)	112516	12.0-12.5	4/12/93	<11	-	-
11187 (1974)	112527	10.5-11.0	4/13/93	11	-	-
11188 (1976)	110559	11.5-12.0	4/2/93	<11	-	-

CONCRETE CORE SCREENING SAMPLES

Location	Sample No.	Date Collected	Total Uranium (mg/kg)	Total Thorium (mg/kg)	Radium-226/288 (pCi/g)
SP-1 ^e	93-461-7852	7/15/93			1.2/0.47
SP-2	93-461-7853	7/15/93	34	<45	2.6/0.26
SP-2b	93-461-7854	7/15/93	24	<45	1.1/0.14

ALPHA/BETA SCREENING SAMPLES

Location	Sample No.	Sample Interval (ft)	Date Collected	Alpha Activity (pCi/g)	Beta Activity (pCi/g)
TRENCH 1	113105	7.0	5/28/93	34	40
TRENCH 2	113724	5.5	6/9/93	1300	1300
	113725	6.0	6/29/93	350	240
SF-SS-17	110299	0.0-0.5	3/18/93	17	<18
SF-SS-18	110289	0.0-0.5	3/18/93	9.1	<18
SF-SS-21	110309	0.0-0.5	3/18/93	17	<18

^aThe sample interval is depth, in feet, below the ground surface.^bSample not analyzed for parameter indicated.^cMW = Monitoring Well^dNA = Not applicable^eTotal uranium and total thorium results not yet available.

TABLE F-15

TABLE F-15A
SOUTH FIELD
ON-SITE LABORATORY CIS SCREENING RESULTS
ACTIVITY CONCENTRATIONS IN PROFILE SAMPLES
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Begin - End Depth (feet)	Radionuclide	Qualifier ^a	Activity Concentrations (pCi/g)	Uncertainty (pCi/g)
BOREHOLE 24-01				
0 - 2	Radium-226		31.50	1.80
0 - 2	Thorium-232		3.40	2.80
0 - 2	Uranium-238	< ^b	58.20	NA
2 - 3	Radium-226		2.70	0.70
2 - 3	Thorium-232	<	0.50	NA
2 - 3	Uranium-238		9.90	6.50
3 - 4	Radium-226		0.70	0.50
3 - 4	Thorium-232		1.00	0.40
3 - 4	Uranium-238	<	14.60	NA
4 - 6	Radium-226		1.90	0.80
4 - 6	Thorium-232		1.90	0.80
4 - 6	Uranium-238		16.20	4.80
6 - 7	Radium-226		1.40	0.70
6 - 7	Thorium-232	<	2.20	NA
6 - 7	Uranium-238	<	9.10	NA
7 - 8	Radium-226		1.00	0.60
7 - 8	Thorium-232		0.90	0.40
7 - 8	Uranium-238	<	7.30	NA
BOREHOLE 24-02				
0 - 2	Radium-226	<	3.70	NA
0 - 2	Thorium-232		7.60	1.10
0 - 2	Uranium-238	<	27.50	NA
2 - 4	Radium-226		0.60	0.30
2 - 4	Thorium-232		1.40	0.60
2 - 4	Uranium-238	<	7.60	NA
4 - 6	Radium-226		1.00	0.80
4 - 6	Thorium-232		1.90	0.70
4 - 6	Uranium-238	<	16.20	NA
6 - 8	Radium-226		0.60	0.50
6 - 8	Thorium-232		1.30	0.50
6 - 8	Uranium-238	<	11.30	NA
10 - 11	Radium-226		0.50	0.40
10 - 11	Thorium-232		0.60	0.50

See footnotes at end of table

TABLE F-15A
(Continued)

Begin - End Depth (feet)	Radionuclide	Qualifier ^a	Activity Concentrations (pCi/g)	Uncertainty (pCi/g)
BOREHOLE 24-02 (Continued)				
10 - 11	Uranium-238	<	9.80	NA
11 - 12	Radium-226		0.80	0.50
11 - 12	Thorium-232	<	0.30	NA
11 - 12	Uranium-238	<	12.10	NA
12 - 13	Radium-226		0.80	0.60
12 - 13	Thorium-232		0.80	0.50
12 - 13	Uranium-238		3.70	2.60
13 - 14	Radium-226		1.00	0.30
13 - 14	Thorium-232		1.00	0.40
13 - 14	Uranium-238	<	8.70	NA
14 - 16	Radium-226		1.00	0.60
14 - 16	Thorium-232		1.70	0.60
14 - 16	Uranium-238	<	11.20	NA
16 - 17	Radium-226	<	1.20	NA
16 - 17	Thorium-232		0.50	0.30
16 - 17	Uranium-238	<	2.70	1.00
17 - 18	Radium-226		0.50	0.30
17 - 18	Thorium-232	<	0.30	NA
17 - 18	Uranium-238	<	7.90	NA
18 - 19	Radium-226		0.50	0.30
18 - 19	Thorium-232		0.50	0.40
18 - 19	Uranium-238	<	9.40	NA
19 - 20	Radium-226	<	1.20	NA
19 - 20	Thorium-232		0.90	0.40
19 - 20	Uranium-238	<	11.10	NA
BOREHOLE 24-03				
0 - 2	Radium-226		0.70	0.30
0 - 2	Thorium-232		1.00	0.40
0 - 2	Uranium-238		17.80	4.70
2 - 3	Radium-226	<	1.00	NA
2 - 3	Thorium-232		1.00	0.50
2 - 3	Uranium-238		14.30	3.90
3 - 4	Radium-226		0.80	0.50
3 - 4	Thorium-232	<	5.00	NA
3 - 4	Uranium-238		7.80	3.10
4 - 5	Radium-226		0.60	0.40
4 - 5	Thorium-232	<	3.10	NA

See footnotes at end of table

TABLE F-15A
(Continued)

Begin - End Depth (feet)	Radionuclide	Qualifier ^a	Activity Concentrations (pCi/g)	Uncertainty (pCi/g)
BOREHOLE 24-03 (Continued)				
BOREHOLE 24-03 (Continued)				
4 - 5	Uranium-238		6.20	2.40
5 - 6	Radium-226	<	1.10	NA
5 - 6	Thorium-232		0.60	0.40
5 - 6	Uranium-238	<	5.00	3.10
6 - 7	Radium-226		0.80	0.60
6 - 7	Thorium-232		1.20	0.50
6 - 7	Uranium-238	<	13.50	NA
7 - 8	Radium-226		1.20	0.30
7 - 8	Thorium-232	<	0.80	NA
7 - 8	Uranium-238		3.80	1.50
8 - 9	Radium-226	<	0.70	NA
8 - 9	Thorium-232		0.70	0.60
8 - 9	Uranium-238	<	13.00	NA
9 - 10	Radium-226		0.80	0.40
9 - 10	Thorium-232		0.80	0.50
9 - 10	Uranium-238	<	10.60	NA
BOREHOLE 24-04				
0 - 1	Radium-226		4.80	1.00
0 - 1	Thorium-232	<	5.90	NA
0 - 1	Uranium-238	<	29.00	NA
1 - 2	Radium-226		.90	0.60
1 - 2	Thorium-232		1.40	0.70
1 - 2	Uranium-238		11.10	5.60
2 - 3	Radium-226		1.10	0.90
2 - 3	Thorium-232		0.90	0.50
2 - 3	Uranium-238		9.80	3.60
3 - 4	Radium-226		1.10	0.50
3 - 4	Thorium-232		1.00	0.60
3 - 4	Uranium-238	<	8.70	NA
BOREHOLE 24-05				
0 - 1	Radium-226		46.00	1.10
0 - 1	Thorium-232	<	7.30	NA
0 - 1	Uranium-238	<	32.80	NA
1 - 2	Radium-226		34.00	2.10
1 - 2	Uranium-238	<	46.20	NA
2 - 3	Radium-226		1.20	0.80
2 - 3	Thorium-232		1.10	0.50

See footnotes at end of table

TABLE F-15A
(Continued)

Begin - End Depth (feet)	Radionuclide	Qualifier ^a	Activity Concentrations (pCi/g)	Uncertainty (pCi/g)
BOREHOLE 24-05 (Continued)				
2 - 3	Uranium-238		9.30	3.60
3 - 4	Radium-226	<	1.20	NA
3 - 4	Thorium-232	<	0.40	NA
3 - 4	Uranium-238	<	16.00	NA
4 - 5	Radium-226		1.70	0.90
4 - 5	Thorium-232	<	0.60	NA
4 - 5	Uranium-238	<	9.30	NA
5 - 6	Radium-226		0.80	0.50
5 - 6	Thorium-232	<	0.40	NA
5 - 6	Uranium-238	<	7.00	NA
6 - 7	Radium-226		1.20	0.50
6 - 7	Thorium-232	<	0.50	NA
6 - 7	Uranium-238	<	14.70	NA
7 - 8	Radium-226		1.00	0.40
7 - 8	Thorium-232	<	3.80	NA
7 - 8	Uranium-238	<	14.20	NA
BOREHOLE 24-06				
0 - 1	Radium-226		5.60	0.80
0 - 1	Thorium-232	<	4.60	NA
0 - 1	Uranium-238	<	32.90	NA
1 - 2	Radium-226		1.70	0.40
1 - 2	Thorium-232		2.10	0.50
1 - 2	Uranium-238	<	18.30	NA
2 - 3	Radium-226		0.60	0.40
2 - 3	Thorium-232	<	0.80	NA
2 - 3	Uranium-238	<	15.40	NA
3 - 4	Radium-226		1.10	0.50
3 - 4	Thorium-232		1.00	0.70
3 - 4	Uranium-238	<	13.10	NA
4 - 5	Radium-226		0.60	0.30
4 - 5	Thorium-232		0.50	0.30
4 - 5	Uranium-238	<	5.00	NA
5 - 6	Radium-226	<	0.30	NA
5 - 6	Thorium-232	<	4.70	NA
5 - 6	Uranium-238	<	12.70	NA
6 - 8	Radium-226		0.60	0.30
6 - 8	Thorium-232		0.80	0.30
6 - 8	Uranium-238	<	8.10	NA

See footnotes at end of table

TABLE F-15A
(Continued)

Begin - End Depth (feet)	Radionuclide	Qualifier ^a	Activity Concentrations (pCi/g)	Uncertainty (pCi/g)
BOREHOLE 24-07				
0 - 1	Radium-226		4.50	1.60
0 - 1	Thorium-232		25.20	1.70
0 - 1	Uranium-238		38.60	9.70
1 - 2	Radium-226		1.30	0.40
1 - 2	Thorium-232		1.90	0.60
1 - 2	Uranium-238		12.30	3.70
2 - 3	Radium-226		0.80	0.40
2 - 3	Thorium-232		1.50	0.60
2 - 3	Uranium-238		15.20	3.70
3 - 4	Radium-226	<	1.30	NA
3 - 4	Thorium-232		1.00	0.50
3 - 4	Uranium-238		5.50	2.50
4 - 5	Radium-226		1.00	0.60
4 - 5	Thorium-232		1.00	0.60
4 - 5	Uranium-238	<	6.80	NA
5 - 6	Radium-226	<	1.90	NA
5 - 6	Thorium-232	<	1.50	NA
5 - 6	Uranium-238	<	10.00	NA
6 - 8	Radium-226	<	0.80	NA
6 - 8	Thorium-232	<	0.30	NA
6 - 8	Uranium-238	<	12.30	NA
BOREHOLE 24-08				
0 - 1.30	Radium-226	<	2.10	NA
0 - 1.30	Thorium-232		36.50	2.20
0 - 1.30	Uranium-238		30.00	10.10
4 - 5	Radium-226	<	0.10	NA
4 - 5	Thorium-232		1.20	0.40
4 - 5	Uranium-238	<	11.50	NA
5 - 6	Radium-226		0.60	0.40
5 - 6	Thorium-232		0.80	0.30
5 - 6	Uranium-238	<	5.30	NA
6 - 8	Radium-226		0.50	0.40
6 - 8	Thorium-232		1.10	0.30
6 - 8	Uranium-238	<	8.00	NA
BOREHOLE 24-09				
0 - 1	Radium-226	<	5.50	NA
0 - 1	Thorium-232		78.10	2.90
0 - 1	Uranium-238	<	39.30	NA
1 - 2	Radium-226	<	5.10	NA

See footnotes at end of table

TABLE F-15A
(Continued)

Begin - End Depth (feet)	Radionuclide	Qualifier ^a	Activity Concentrations (pCi/g)	Uncertainty (pCi/g)
BOREHOLE 24-09 (Continued)				
(Continued)				
1 - 2	Thorium-232		101.00	2.90
1 - 2	Uranium-238	<	41.40	NA
2 - 4	Radium-226		2.60	0.90
2 - 4	Thorium-232		4.20	0.60
2 - 4	Uranium-238		12.30	3.60
4 - 6	Radium-226		1.90	0.60
4 - 6	Thorium-232		3.90	0.80
4 - 6	Uranium-238	<	27.40	NA
6 - 8	Radium-226		1.70	0.60
6 - 8	Thorium-232		6.70	1.30
6 - 8	Uranium-238		22.10	7.20
8 - 9	Radium-226		1.20	0.80
8 - 9	Thorium-232		2.60	0.70
8 - 9	Uranium-238		10.70	4.20
9 - 10	Radium-226		0.90	0.50
9 - 10	Thorium-232		0.80	0.40
9 - 10	Uranium-238		6.30	3.70
10 - 11	Radium-226	<	1.80	NA
10 - 11	Thorium-232		0.90	0.40
10 - 11	Uranium-238	<	7.10	NA
11 - 12	Radium-226		0.90	0.30
11 - 12	Thorium-232	<	1.60	NA
11 - 12	Uranium-238	<	10.50	NA
12 - 13	Radium-226		0.70	0.30
12 - 13	Thorium-232	<	2.50	NA
12 - 13	Uranium-238	<	8.30	NA
13 - 14	Radium-226		0.80	0.60
13 - 14	Thorium-232		0.80	0.40
13 - 14	Uranium-238	<	9.00	NA
BOREHOLE 24-12				
0 - 1	Radium-226	<	0.10	NA
0 - 1	Thorium-232	<	2.30	NA
0 - 1	Uranium-238	<	9.00	NA
1 - 2	Radium-226		1.10	0.30
1 - 2	Thorium-232		0.70	0.60
1 - 2	Uranium-238	<	7.60	NA
2 - 4	Radium-226		0.60	0.40
2 - 4	Thorium-232		0.60	0.30

See footnotes at end of table

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FEMP-OU02-6 FINAL
January 21, 1995TABLE F-15A
(Continued)

Begin - End Depth (feet)	Radionuclide	Qualifier ^a	Activity Concentrations (pCi/g)	Uncertainty (pCi/g)
BOREHOLE 24-12 (Continued)				
(Continued)				
2 - 4	Uranium-238	<	9.30	NA
4 - 6	Radium-226		0.90	0.30
4 - 6	Thorium-232		1.10	0.50
4 - 6	Uranium-238		5.30	2.80
6 - 7	Radium-226		0.70	0.40
6 - 7	Thorium-232		0.90	0.40
6 - 7	Uranium-238		13.20	3.10
7 - 8	Radium-226		1.40	1.00
7 - 8	Thorium-232		2.00	0.60
7 - 8	Uranium-238		22.00	4.20
8 - 10	Radium-226		1.20	0.90
8 - 10	Thorium-232		1.00	0.60
8 - 10	Uranium-238		5.90	3.90
10 - 12	Radium-226		1.00	0.50
10 - 12	Thorium-232		4.30	0.60
10 - 12	Uranium-238		12.80	5.60
12 - 14	Radium-226		0.60	0.50
12 - 14	Thorium-232		1.50	0.60
12 - 14	Uranium-238		6.30	3.90
16 - 17	Radium-226	<	1.70	NA
16 - 17	Thorium-232	<	0.30	NA
16 - 17	Uranium-238	<	5.40	NA
17 - 18	Radium-226	<	0.80	NA
17 - 18	Thorium-232		0.70	0.40
17 - 18	Uranium-238	<	4.20	NA

^aLaboratory Qualifiers, no data validation was performed on screening data.^b< = Less than

TABLE F-15B
SOUTH FIELD
CIS SURFACE SOIL RADIOLOGICAL RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-026	Cesium-137	0.1		<
	Potassium-40	12.3	4.9	
	Radium-226	0.2	0.1	
	Ruthenium-106	0.4		<
	Thorium-232	1	0.3	
	Uranium-238	14.5		<
FMP-SL-24-027	Cesium-137	0.4		<
	Potassium-40	11.4	4.5	
	Radium-226	1.5		<
	Ruthenium-106	4.1		<
	Thorium-232	10.2	2.4	
	Uranium-238	19.4		<
FMP-SL-24-028	Cesium-137	0.3		<
	Potassium-40	8.2	3.6	
	Radium-226	0.7		<
	Ruthenium-106	4.2		<
	Thorium-232	4.4	0.7	
	Uranium-238	12.6	4.7	
FMP-SL-24-029	Cesium-137	0.4		<
	Potassium-40	6.7	2.7	
	Radium-226	2.8	0.5	
	Ruthenium-106	0.5		<
	Thorium-232	1.8		<
	Uranium-238	2	1.6	
FMP-SL-24-029D	Cesium-137	0.4	0.2	
	Potassium-40	8	3	
	Radium-226	3	0.5	
	Ruthenium-106	1.9		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-029D (Continued)	Thorium-232	1.8		<
	Uranium-238	11.3		<
FMP-SL-24-030	Cesium-137	0.1		<
	Potassium-40	11.9	4.7	
	Radium-226	0.7	0.3	
	Ruthenium-106	6.7		<
	Thorium-232	0.3		<
	Uranium-238	2.5	1.8	
FMP-SL-24-031	Cesium-137	0.5		<
	Thorium-232	0.7	0.3	
	Potassium-40	4.9	2	
	Radium-226	1		<
	Ruthenium-106	6.6		<
	Uranium-238	3.8	1.8	
FMP-SL-24-032	Cesium-137	0.9		<
	Potassium-40	7.8	3.3	
	Radium-226	1.4	0.3	
	Ruthenium-106	0.5		<
	Thorium-232	0.3		<
	Uranium-238	2	1.3	
FMP-SL-24-032D	Cesium-137	0.6		<
	Potassium-40	8.2	3.2	
	Radium-226	1.6	0.5	
	Ruthenium-106	7.5		<
	Thorium-232	0.3	0.2	
	Uranium-238	16.7		<
FMP-SL-24-033	Cesium-137	0.6		<
	Potassium-40	11.2	4	
	Radium-226	4.2	0.3	
	Ruthenium-106	8.3		<
	Thorium-232	5.6		<
	Uranium-238	25.5		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-034	Cesium-137	0.7		<
	Potassium-40	9.4	3.7	
	Radium-226	2.6	0.3	
	Ruthenium-106	4.2		<
	Thorium-232	0.3		<
	Uranium-238	10.5	3.8	
FMP-SL-24-035	Cesium-137	1		<
	Potassium-40	5.6		<
	Radium-226	3.1	0.5	
	Ruthenium-106	8.8		<
	Thorium-232	3		<
	Uranium-238	20		<
FMP-SL-24-036	Cesium-137	1.5		<
	Potassium-40	6.5	3	
	Radium-226	8.7	0.8	
	Ruthenium-106	3.7		<
	Thorium-232	3.3	1.5	
	Uranium-238	28.1		<
FMP-SL-24-037	Cesium-137	0.6		<
	Potassium-40	10.1	3.7	
	Radium-226	7.5	0.8	
	Ruthenium-106	5.4		<
	Thorium-232	0.7	0.2	
	Uranium-238	12.7		<
FMP-SL-24-038	Cesium-137	0.6		<
	Potassium-40	8.1	3.3	
	Radium-226	2.5	0.2	
	Ruthenium-106	7.1		<
	Thorium-232	1.3	0.5	
	Uranium-238	13.1		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-040	Cesium-137	0.5	0.4	
	Potassium-40	10.4	3.8	
	Radium-226	2.1		<
	Ruthenium-106	9.2		<
	Thorium-232	6.6	2.4	
	Uranium-238	5.3	4.6	
FMP-SL-24-041	Cesium-137	0.4		<
	Potassium-40	11.5	4	
	Radium-226	2.4	0.5	
	Ruthenium-106	0.5		<
	Thorium-232	0.3		<
	Uranium-238	14.6		<
FMP-SL-24-042	Cesium-137	1.3		<
	Potassium-40	9.7	3.6	
	Radium-226	3.8	0.5	
	Ruthenium-106	4.2		<
	Thorium-232	0.3		<
	Uranium-238	15.4		<
FMP-SL-24-042D	Cesium-137	1.2		<
	Potassium-40	8.4	3.4	
	Radium-226	4	0.7	
	Ruthenium-106	3.4		<
	Thorium-232	0.3		<
	Uranium-238	17.9		<
FMP-SL-24-044	Cesium-137	0.8		<
	Potassium-40	10.5	4	
	Radium-226	8.6	0.7	
	Ruthenium-106	4.9		<
	Thorium-230	91.9	80	
	Thorium-232	3.7		<
	Uranium-238	33.3		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-045	Cesium-137	0.5		<
	Potassium-40	4.4	2.8	
	Radium-226	6.2	0.6	
	Ruthenium-106	8.1		<
	Thorium-230	115	110	
	Thorium-232	0.2		<
	Uranium-238	25.3		<
FMP-SL-24-045D	Cesium-137	0.2		<
	Potassium-40	7.9	4.6	
	Radium-226	5.2	0.6	
	Ruthenium-106	0.5		<
	Thorium-230	106	50	
	Thorium-232	1.3		<
	Uranium-238	27.1		<
FMP-SL-24-048	Cesium-137	1.6		<
	Potassium-40	14.9		<
	Radium-226	74.2	2.1	
	Ruthenium-106	23.8		<
	Thorium-230	964	250	
	Thorium-232	3.5		<
	Uranium-238	21.9	9.5	
FMP-SL-24-049	Potassium-40	24.8		<
	Radium-226	109	2.5	
	Ruthenium-106	23		<
	Thorium-232	9.1	4.1	
	Uranium-238	19.6	6.8	
	Cesium-137	3.3		<
	Thorium-230	1620	308	
FMP-SL-24-051	Cesium-137	1.7		<
	Potassium-40	9.1		<
	Radium-226	29.3	1.3	
	Ruthenium-106	17.1		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-051 (Continued)	Thorium-230	454	192	
	Thorium-232	3.1		<
	Uranium-238	15.8	4.3	
FMP-SL-24-052	Cesium-137	1.6		<
	Potassium-40	14.4		<
	Radium-226	28.2	1.3	
	Ruthenium-106	13.4		<
	Thorium-230	302	175	
	Thorium-232	8.1	2.4	
	Uranium-238	20		<
FMP-SL-24-054	Cesium-137	1.1		<
	Potassium-40	8.4	5	
	Radium-226	2.8		<
	Ruthenium-106	8.2		<
	Thorium-230	279		<
	Thorium-232	10	0.9	
	Uranium-238	5.7	2.9	
FMP-SL-24-055	Cesium-137	2.6		<
	Potassium-40	11.3	6.9	
	Radium-226	2.6		<
	Ruthenium-106	18.3		<
	Thorium-230	329		<
	Thorium-232	33.7	4.3	
	Uranium-238	15.6		<
FMP-SL-24-055D	Cesium-137	2.3		<
	Potassium-40	13.5	5.6	
	Radium-226	2.1		<
	Ruthenium-106	9.2		<
	Thorium-230	588		<
	Thorium-232	36.4	3.8	
	Uranium-238	12.2		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-056	Cesium-137	0.4		<
	Potassium-40	11.7	3.6	
	Radium-226	0.7	0.4	
	Ruthenium-106	9.8		<
	Thorium-230	251		<
	Thorium-232	4.5	0.5	
	Uranium-238	19.6		<
FMP-SL-24-056D	Cesium-137	0.3		<
	Potassium-40	8.6	3.2	
	Radium-226	1.1	0.3	
	Ruthenium-106	0.5		<
	Thorium-232	0.3		<
	Uranium-238	3.4		<
FMP-SL-24-058	Cesium-137	0.3	0.2	
	Potassium-40	11.3	4.4	
	Radium-226	3.2	0.5	
	Ruthenium-106	9.1		<
	Thorium-230	329		<
	Thorium-232	2		<
	Uranium-238	6.3	5	
FMP-SL-24-059	Cesium-137	1.3		<
	Potassium-40	11.2	4.3	
	Radium-226	1.9	0.4	
	Ruthenium-106	7.1		<
	Thorium-230	244		<
	Thorium-232	0.8	0.7	
	Uranium-238	6.7		<
FMP-SL-24-061	Cesium-137	0.5		<
	Potassium-40	12.1	3.7	
	Radium-226	6.3	0.6	

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-061 (Continued)	Ruthenium-106	6.6		<
	Thorium-232	1	0.5	
	Uranium-238	16.4		<
FMP-SL-24-062	Cesium-137	0.4		<
	Potassium-40	10.8	3.5	
	Radium-226	2	0.4	
	Ruthenium-106	4.7		<
	Thorium-232	1.3		<
	Uranium-238	5.3	2.1	
FMP-SL-24-063	Cesium-137	0.4		<
	Potassium-40	12.1	3.6	
	Radium-226	7.4	0.7	
	Ruthenium-106	3.4		<
	Thorium-230	82	22	
	Thorium-232	1.6		<
	Uranium-238	31.8		<
FMP-SL-24-065	Cesium-137	0.2		<
	Thorium-232	2.2		<
	Potassium-40	9.4	4.6	
	Ruthenium-106	3.1		<
	Radium-226	0.4	0.2	
	Uranium-238	19.8	3.7	
FMP-SL-24-065D	Cesium-137	0.2		<
	Potassium-40	7.4	3	
	Radium-226	0.5	0.3	
	Ruthenium-106	2.2		<
	Thorium-232	1.1		<
	Uranium-238	20.9	3.1	
FMP-SL-24-067	Cesium-137	0.6		<
	Potassium-40	8.5	3.6	
	Radium-226	0.7	0.3	
	Ruthenium-106	0.5		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-067 (Continued)	Thorium-232	2.4		<
	Uranium-238	26	3.6	
FMP-SL-24-069	Cesium-137	0.5		<
	Potassium-40	9.2	3.5	
	Radium-226	5.1	0.6	
	Ruthenium-106	2.6		<
	Thorium-232	3.4	1.5	
	Uranium-238	11.4	4.8	
FMP-SL-24-071	Cesium-137	0.8		<
	Potassium-40	7.6	3.7	
	Radium-226	7	0.9	
	Ruthenium-106	5.9		<
	Thorium-230	135		<
	Thorium-232	6.8	3.7	
	Uranium-238	19.2		<
FMP-SL-24-073	Cesium-137	0.3		<
	Potassium-40	7.8	3.1	
	Radium-226	2.6	0.5	
	Ruthenium-106	3.7		<
	Thorium-232	2.6		<
	Uranium-238	6.3	4.2	
FMP-SL-24-074	Cesium-137	0.4		<
	Potassium-40	12.7	4.2	
	Radium-226	0.7	0.5	
	Ruthenium-106	3.7		<
	Thorium-232	0.7	0.4	
	Uranium-238	2.9	1.3	
FMP-SL-24-076	Cesium-137	0.3		<
	Potassium-40	11.6	4	
	Radium-226	1.7		<
	Ruthenium-106	2.8		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-076 (Continued)	Thorium-232	0.7	0.3	
	Uranium-238	55.6	6	
FMP-SL-24-078	Cesium-137	0.9		<
	Potassium-40	1		<
	Radium-226	5.8	0.8	
	Ruthenium-106	6		<
	Thorium-232	2.6		<
	Uranium-238	6.5	4.9	
FMP-SL-24-079	Cesium-137	0.2		<
	Potassium-40	8.7	4	
	Radium-226	6.4	0.8	
	Ruthenium-106	4.1		<
	Thorium-232	1.4		<
	Uranium-238	9.3		<
FMP-SL-24-080	Cesium-137	0.6		<
	Potassium-40	8.8	3.6	
	Radium-226	2.8	0.5	
	Ruthenium-106	7.8		<
	Thorium-232	0.4	0.3	
	Uranium-238	5	3.1	
FMP-SL-24-082	Cesium-137	0.7		<
	Thorium-232	0.8	0.5	
	Potassium-40	9.3	4.5	
	Ruthenium-106	3.1		<
	Radium-226	1.8	0.4	
	Uranium-238	21.5	3.5	
FMP-SL-24-085	Cesium-137	1.2		<
	Potassium-40	9.5	3.6	
	Radium-226	27.5	1.4	
	Ruthenium-106	5.1		<
	Thorium-232	6.8		<
	Uranium-238	24.1		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-086	Cesium-137	0.1		<
	Potassium-40	8.4	3.3	
	Radium-226	6.3	0.7	
	Ruthenium-106	4.9		<
	Thorium-232	2		<
	Uranium-238	15.5		<
FMP-SL-24-086D	Cesium-137	0.8		<
	Potassium-40	6.6	2.9	
	Radium-226	7.4	0.7	
	Ruthenium-106	6.7		<
	Thorium-232	3.1		<
	Uranium-238	8.1		<
FMP-SL-24-088	Cesium-137	0.5		<
	Potassium-40	8.3	2.9	
	Radium-226	15.2	1.2	
	Ruthenium-106	7.8		<
	Thorium-232	1.1	0.8	
	Uranium-238	19.4		<
FMP-SL-24-090	Cesium-137	1		<
	Uranium-238	30.9		<
	Ruthenium-106	9.6		<
	Radium-226	40.5	1.6	
	Potassium-40	13.9		<
	Thorium-232	4.5		<
FMP-SL-24-091	Cesium-137	0.5		<
	Potassium-40	10.6	3.9	
	Radium-226	7.9	0.8	
	Ruthenium-106	7.2		<
	Thorium-232	3.7		<
	Uranium-238	15.7		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-094	Cesium-137	1.6		<
	Potassium-40	13.3		<
	Radium-226	51.8	1.8	
	Ruthenium-106	6.7		<
	Thorium-232	7.2		<
	Uranium-238	20.7		<
FMP-SL-24-095	Cesium-137	1.5		<
	Potassium-40	12.8	3	
	Radium-226	37	1.7	
	Ruthenium-106	7.1		<
	Thorium-232	2.7		<
	Uranium-238	18.3		<
FMP-SL-24-097	Cesium-137	1.4		<
	Potassium-40	6.4		<
	Radium-226	13.8	1	
	Ruthenium-106	4.5		<
	Thorium-232	1.5		<
	Uranium-238	23.4		<
FMP-SL-24-098	Cesium-137	0.7		<
	Potassium-40	7.3	3	
	Radium-226	7.5	0.7	
	Ruthenium-106	5		<
	Thorium-232	1.1	0.7	
	Uranium-238	11.5		<
FMP-SL-24-100	Cesium-137	0.6		<
	Potassium-40	7.3	2.8	
	Radium-226	5.4	0.7	
	Ruthenium-106	5.4		<
	Thorium-232	1.6		<
	Uranium-238	7.7	4.2	

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-102	Cesium-137	0.6		<
	Potassium-40	7.9	4	
	Radium-226	4.1	0.6	
	Ruthenium-106	4		<
	Thorium-232	1.8	0.6	
	Uranium-238	14.9		<
FMP-SL-24-104	Cesium-137	0.9		<
	Potassium-40	15.9		<
	Radium-226	8.7	0.8	
	Ruthenium-106	3.8		<
	Thorium-232	0.5	0.2	
	Uranium-238	17		<
FMP-SL-24-105	Cesium-137	0.6		<
	Potassium-40	11.2	3.2	
	Radium-226	9.2	0.9	
	Ruthenium-106	4.6		<
	Thorium-232	1.4		<
	Uranium-238	19.3		<
FMP-SL-24-109	Cesium-137	0.8		<
	Potassium-40	6.8	4.8	
	Thorium-232	4.9		<
	Radium-226	14.7	1	
	Ruthenium-106	7.4		<
	Uranium-238	9.9	5.7	
FMP-SL-24-110QC	Cesium-137	0.9		<
	Potassium-40	14.6	4.3	
	Radium-226	12.4	1	
	Ruthenium-106	0.5		<
	Thorium-232	2.4		<
	Uranium-238	15.3		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-111	Cesium-137	0.6		<
	Potassium-40	10.2	3.6	
	Thorium-232	3.5		<
	Radium-226	13.1	1	
	Ruthenium-106	10.1		<
	Uranium-238	23.4		<
FMP-SL-24-113	Cesium-137	2.9		<
	Potassium-40	18.2		<
	Thorium-232	6.1		<
	Radium-226	96.5	2.6	
	Ruthenium-106	10		<
	Uranium-238	33.9		<
FMP-SL-24-114	Cesium-137	2.3		<
	Potassium-40	10.2	4.8	
	Radium-226	84.8	2.5	
	Ruthenium-106	11		<
	Thorium-232	8.8		<
	Uranium-238	49.3		<
FMP-SL-24-116	Cesium-137	2.3		<
	Potassium-40	18		<
	Thorium-232	7.4		<
	Radium-226	60.1	2.3	
	Ruthenium-106	14.3		<
	Uranium-238	48.2		<
FMP-SL-24-116D	Cesium-137	1.9		<
	Potassium-40	21.8		<
	Radium-226	62.6	2	
	Ruthenium-106	8.3		<
	Thorium-232	6.3		<
	Uranium-238	26.4		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-117	Cesium-137	2		<
	Potassium-40	15.9		<
	Ruthenium-106	8.4		<
	Radium-226	52.7	2.1	
	Thorium-232	3.3		<
	Uranium-238	33.4	10	
FMP-SL-24-118	Cesium-137	1.9		<
	Potassium-40	20.1		<
	Radium-226	40	1.8	
	Ruthenium-106	11.6		<
	Thorium-232	3.2		<
	Uranium-238	15.4	10	
FMP-SL-24-119QC	Cesium-137	0.9		<
	Potassium-40	9.9		<
	Radium-226	29.9	1.4	
	Ruthenium-106	14.7		<
	Thorium-232	5		<
	Uranium-238	19	8	
FMP-SL-24-121	Cesium-137	2		<
	Potassium-40	8	5.7	
	Ruthenium-106	10.7		<
	Radium-226	3.2	1.2	
	Thorium-232	43.6	4.8	
	Uranium-238	40.7	15	
FMP-SL-24-122	Cesium-137	1		<
	Potassium-40	18.7	5.2	
	Ruthenium-106	18.1		<
	Radium-226	1.7	0.7	
	Thorium-232	27.9	1.6	
	Uranium-238	52.2	11	

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(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-124	Cesium-137	2.2		<
	Potassium-40	15.1	7.5	
	Radium-226	94.9	2.7	
	Ruthenium-106	17.5		<
	Thorium-232	6.1		<
	Uranium-238	35.1		<
FMP-SL-24-125	Cesium-137	0.7		<
	Potassium-40	7.2	4.8	
	Radium-226	17.1	1.6	
	Ruthenium-106	9		<
	Thorium-232	2.1		<
	Uranium-238	29		<
FMP-SL-24-126D	Cesium-137	1.5		<
	Potassium-40	8.3		<
	Radium-226	14.6	1.1	
	Ruthenium-106	3.4		<
	Thorium-232	4.5		<
	Uranium-238	27.2		<
FMP-SL-24-127	Cesium-137	1.4		<
	Potassium-40	7.4	4.6	
	Radium-226	18.3	1.2	
	Ruthenium-106	10.7		<
	Thorium-232	5		<
	Uranium-238	28.7		<
FMP-SL-24-128QC	Cesium-137	1.7		<
	Potassium-40	5.5	2.7	
	Radium-226	19.2	1.4	
	Ruthenium-106	9.6		<
	Thorium-232	6.1		<
	Uranium-238	16.6		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-130	Cesium-137	1.2		<
	Potassium-40	10.2	3.3	
	Radium-226	14	0.9	
	Ruthenium-106	7.5		<
	Thorium-232	4.7		<
	Uranium-238	14.3		<
FMP-SL-24-131	Cesium-137	0.4		<
	Potassium-40	10.4	3.7	
	Radium-226	6.9	0.7	
	Ruthenium-106	7.5		<
	Thorium-232	3.8		<
	Uranium-238	8.3		<
FMP-SL-24-132QC	Cesium-137	0.7		<
	Potassium-40	9.4	3.3	
	Radium-226	11.5	0.9	
	Ruthenium-106	7.6		<
	Thorium-232	2		<
	Uranium-238	13.7		<
FMP-SL-24-134	Cesium-137	1.2		<
	Potassium-40	11.3	3.9	
	Radium-226	38.6	1.6	
	Ruthenium-106	11.4		<
	Thorium-232	5		<
	Uranium-238	20.9		<
FMP-SL-24-135	Cesium-137	0.7		<
	Potassium-40	10.6	3.4	
	Radium-226	15	1.1	
	Ruthenium-106	6.7		<
	Thorium-232	2.8		<
	Uranium-238	24.7		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-136D	Cesium-137	1		<
	Potassium-40	12.2		<
	Radium-226	19.7	1.2	
	Ruthenium-106	8.2		<
	Thorium-232	2.6		<
	Uranium-238	28.5		<
FMP-SL-24-136QC	Cesium-137	1.4		<
	Potassium-40	8.4		<
	Radium-226	18.2	1.4	
	Ruthenium-106	4.1		<
	Thorium-232	3.8		<
	Uranium-238	26.3		<
FMP-SL-24-141	Cesium-137	1.4		<
	Potassium-40	14.8	4.3	
	Radium-226	1.7		<
	Ruthenium-106	12.3		<
	Thorium-232	32.6	3.9	
	Uranium-238	34		<
FMP-SL-24-143	Cesium-137	2		<
	Potassium-40	17.5		<
	Radium-226	3.6	2.4	
	Ruthenium-106	14		<
	Thorium-232	51.7	6	
	Uranium-238	25.2		<
FMP-SL-24-147	Cesium-137	0.4		<
	Potassium-40	8.9	5	
	Radium-226	12.2	0.8	
	Ruthenium-106	1.7		<
	Thorium-232	1.8	0.6	
	Uranium-238	17.4		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-149	Cesium-137	1		<
	Potassium-40	15.7		<
	Radium-226	8.2	0.9	
	Ruthenium-106	5.7		<
	Thorium-232	2.9		<
	Uranium-238	17		<
FMP-SL-24-150QC	Potassium-40	10.4	2.8	
	Thorium-232	1.9		<
	Cesium-137	0.8		<
	Ruthenium-106	3.5		<
	Radium-226	7.7	0.9	
	Uranium-238	9.2		<
FMP-SL-24-152	Cesium-137	0.8		<
	Potassium-40	14.5		<
	Radium-226	31.5	1.2	
	Ruthenium-106	10.2		<
	Thorium-232	4.4		<
	Uranium-238	14.5		<
FMP-SL-24-153QC	Cesium-137	0.7		<
	Potassium-40	8.7	5.1	
	Radium-226	27.3	1.3	
	Ruthenium-106	10.7		<
	Thorium-232	3.1		<
	Uranium-238	13.6		<
FMP-SL-24-154	Cesium-137	0.4		<
	Potassium-40	7.4	4.9	
	Ruthenium-106	5.1		<
	Radium-226	4.1	0.6	
	Thorium-232	2.6		<
	Uranium-238	8.9		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-155QC	Cesium-137	0.4		<
	Potassium-40	5.3		<
	Radium-226	4	0.5	
	Ruthenium-106	3.7		<
	Thorium-232	1.6		<
	Uranium-238	4	2.8	
FMP-SL-24-157	Cesium-137	0.5		<
	Potassium-40	6.8	2.9	
	Radium-226	9.2	0.9	
	Ruthenium-106	6.6		<
	Thorium-232	2.3	0.7	
	Uranium-238	19.8		<
FMP-SL-24-160	Cesium-137	1.1		<
	Potassium-40	8	3	
	Radium-226	12.5	0.9	
	Ruthenium-106	5.1		<
	Thorium-232	5.3		<
	Uranium-238	15.7		<
FMP-SL-24-161	Cesium-137	0.9		<
	Potassium-40	6.4		<
	Radium-226	12.8	0.9	
	Ruthenium-106	4.5		<
	Thorium-232	3.8		<
	Uranium-238	223		<
FMP-SL-24-163	Cesium-137	0.7		<
	Potassium-40	22.3		<
	Radium-226	15.8	0.9	
	Ruthenium-106	10.5		<
	Thorium-232	4.9		<
	Uranium-238	33.1		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-164	Cesium-137	0.9		<
	Potassium-40	22.7		<
	Radium-226	8.6	0.7	
	Ruthenium-106	8.2		<
	Thorium-232	1.3	0.8	
	Uranium-238	23.5		<
FMP-SL-24-166	Cesium-137	1.3		<
	Potassium-40	9.3	4	
	Radium-226	4.2	0.5	
	Ruthenium-106	5.5		<
	Thorium-232	1.1	0.6	
	Uranium-238	18.1		<
FMP-SL-24-166D	Cesium-137	0.5		<
	Potassium-40	8.8		<
	Radium-226	4	0.6	
	Ruthenium-106	2.8		<
	Thorium-232	3.3		<
	Uranium-238	14		<
FMP-SL-24-168	Cesium-137	0.9		<
	Potassium-40	7.1	2.9	
	Radium-226	4	0.4	
	Ruthenium-106	8.2		<
	Thorium-232	1.7		<
	Uranium-238	10.1		<
FMP-SL-24-169	Cesium-137	0.2		<
	Potassium-40	5		<
	Radium-226	2.6	0.5	
	Ruthenium-106	9.5		<
	Thorium-232	0.3		<
	Uranium-238	16.8		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-171	Cesium-137	1.4		<
	Potassium-40	5.9		<
	Radium-226	10.1	0.8	
	Ruthenium-106	5.2		<
	Thorium-232	2.6		<
	Uranium-238	28.5		<
FMP-SL-24-172	Cesium-137	0.4		<
	Potassium-40	13.5		<
	Radium-226	2.7	0.5	
	Ruthenium-106	3.8		<
	Thorium-232	0.3		<
	Uranium-238	7	4.6	
FMP-SL-24-177	Cesium-137	0.1		<
	Potassium-40	6.4		<
	Radium-226	1.1	0.4	
	Ruthenium-106	8.2		<
	Thorium-232	4.4	0.6	
	Uranium-238	23.1		<
FMP-SL-24-178	Cesium-137	1.8		<
	Potassium-40	5.1	2	
	Radium-226	1.2		<
	Ruthenium-106	12.9		<
	Thorium-232	13.4	0.9	
	Uranium-238	18		<
FMP-SL-24-179	Cesium-137	2.4		<
	Potassium-40	8		<
	Radium-226	4.9		<
	Ruthenium-106	22.9		<
	Thorium-232	57.7	2.1	
	Uranium-238	15		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-181	Cesium-137	0.1		<
	Potassium-40	19.2		<
	Radium-226	1.4		<
	Ruthenium-106	8.1		<
	Thorium-232	1.2	0.5	
	Uranium-238	2.1	1.5	
FMP-SL-24-182	Cesium-137	0.8		<
	Potassium-40	7.1	5	
	Radium-226	1.5		<
	Ruthenium-106	8.6		<
	Thorium-232	4.9	0.5	
	Uranium-238	22.7		<
FMP-SL-24-190	Cesium-137	1.3		<
	Potassium-40	24.4		<
	Radium-226	22.8	1.3	
	Ruthenium-106	7.3		<
	Thorium-232	3.2		<
	Uranium-238	22.5		<
FMP-SL-24-191	Cesium-137	0.8		<
	Potassium-40	27.4		<
	Radium-226	2.9	0.5	
	Ruthenium-106	5.3		<
	Thorium-232	2.7		<
	Uranium-238	17.3	8.9	
FMP-SL-24-192	Cesium-137	4.4		<
	Potassium-40	44.2		<
	Radium-226	266	3.5	
	Ruthenium-106	37.9		<
	Thorium-232	8.5		<
	Uranium-238	70		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-194	Cesium-137	0.7		<
	Potassium-40	8.5	4.2	
	Radium-226	7.1	0.8	
	Ruthenium-106	7.9		<
	Thorium-232	1		<
	Uranium-238	12.1		<
FMP-SL-24-195	Cesium-137	1.1		<
	Potassium-40	10.8	6.1	
	Radium-226	13	0.8	
	Ruthenium-106	8.4		<
	Thorium-232	2		<
	Uranium-238	22.4		<
FMP-SL-24-197	Cesium-137	1.1		<
	Potassium-40	12.1	3.7	
	Radium-226	11.1	0.8	
	Ruthenium-106	4.5		<
	Thorium-232	5.5		<
	Uranium-238	38.2	6.3	
FMP-SL-24-199	Cesium-137	1.9		<
	Potassium-40	11.8	4.6	
	Radium-226	55.5	2	
	Ruthenium-106	13.5		<
	Thorium-232	7.6		<
	Uranium-238	48.1		<
FMP-SL-24-200QC	Cesium-137	1.9		<
	Potassium-40	14.2		<
	Radium-226	44.8	2	
	Ruthenium-106	18.5		<
	Thorium-232	7.3		<
	Uranium-238	42.1		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-202	Cesium-137	0.6		<
	Potassium-40	18.7		<
	Radium-226	0.9	0.5	
	Ruthenium-106	12.2		<
	Thorium-232	9.1	0.8	
	Uranium-238	15.5	8.3	
FMP-SL-24-203	Cesium-137	1.6		<
	Potassium-40	8.2		<
	Radium-226	2.5		<
	Ruthenium-106	8.7		<
	Thorium-232	21.4	1.4	
	Uranium-238	20.6		<
FMP-SL-24-204	Cesium-137	0.9		<
	Potassium-40	12.4	4.6	
	Radium-226	2.4		<
	Ruthenium-106	5.5		<
	Thorium-232	9.5	1	
	Uranium-238	16.3		<
FMP-SL-24-206	Cesium-137	2.5		<
	Potassium-40	11.4		<
	Radium-226	53.3	2.2	
	Ruthenium-106	7.8		<
	Thorium-232	7.9		<
	Uranium-238	28.2		<
FMP-SL-24-206D	Cesium-137	2.1		<
	Potassium-40	17		<
	Radium-226	53.1	2.2	
	Ruthenium-106	19.3		<
	Thorium-232	7.9		<
	Uranium-238	26.5		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-207	Cesium-137	0.7		<
	Potassium-40	12.7	4.3	
	Radium-226	9.2	0.9	
	Ruthenium-106	3.7		<
	Thorium-232	1.3	0.6	
	Uranium-238	12.6		<
FMP-SL-24-222	Cesium-137	0.7		<
	Potassium-40	4	2.3	
	Radium-226	1.4	0.3	
	Ruthenium-106	0.5		<
	Thorium-232	1.2	0.6	
	Uranium-238	39.5	5.6	
FMP-SL-24-228	Cesium-137	0.8		<
	Potassium-40	10.6		<
	Radium-226	10.2	0.9	
	Ruthenium-106	6.7		<
	Thorium-232	2.1	0.9	
	Uranium-238	22.4		<
FMP-SL-24-230	Cesium-137	0.7		<
	Potassium-40	24		<
	Radium-226	10.1	1.1	
	Ruthenium-106	8.5		<
	Thorium-232	2.4		<
	Uranium-238	26.7		<
FMP-SL-24-231QC	Cesium-137	1.3		<
	Potassium-40	31.8		<
	Radium-226	9.8	1.1	
	Ruthenium-106	164		<
	Thorium-232	2.6		<
	Uranium-238	14.7		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-233	Cesium-137	1.6		<
	Potassium-40	21.7		<
	Radium-226	19.7	1.3	
	Ruthenium-106	12.9		<
	Thorium-230	799	214	
	Thorium-232	8.3		<
	Uranium-238	32	12	
FMP-SL-24-234QC	Cesium-137	1.3		<
	Potassium-40	23.5		<
	Radium-226	17.7	1.3	
	Ruthenium-106	11.8		<
	Thorium-230	862	228	
	Thorium-232	3.1		<
	Uranium-238	27.4	10.9	
FMP-SL-24-236	Cesium-137	2.1		<
	Thorium-232	23.5	2	
	Potassium-40	16.5	4.3	
	Ruthenium-106	16.9		<
	Radium-226	18.9	1.6	
	Uranium-238	29.6		<
FMP-SL-24-236D	Cesium-137	2.6		<
	Thorium-232	26	1.6	
	Potassium-40	10.5	4.5	
	Ruthenium-106	12.7		<
	Radium-226	18.1	1.5	
	Uranium-238	29.4	10.2	
FMP-SL-24-239	Cesium-137	1.3		<
	Potassium-40	9.2	3.7	
	Radium-226	7.5	0.7	
	Ruthenium-106	12.6		<
	Thorium-232	9.6	1	
	Uranium-238	20.6		<

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(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-240QC	Cesium-137	1.2		<
	Potassium-40	7.2	3.5	
	Radium-226	7.7	0.8	
	Ruthenium-106	8.3		<
	Thorium-232	5.8		<
	Uranium-238	4.8	2.6	
FMP-SL-24-246	Cesium-137	1.3		<
	Potassium-40	7.9	5	
	Radium-226	22.9	1.4	
	Ruthenium-106	11.9		<
	Thorium-232	5.5		<
	Uranium-238	19.4		<
FMP-SL-24-246D	Cesium-137	1.4		<
	Potassium-40	8.1	3.2	
	Radium-226	23.7	1.3	
	Ruthenium-106	13.2		<
	Uranium-238	35		<
FMP-SL-24-247	Cesium-137	2		<
	Potassium-40	14.5	5.3	
	Radium-226	18.8	1.2	
	Ruthenium-106	15		<
	Thorium-232	3.8		<
	Uranium-238	17.2		<
FMP-SL-24-248QC	Cesium-137	1.1		<
	Potassium-40	12.9	5.5	
	Radium-226	27.1	1.4	
	Ruthenium-106	16.7		<
	Thorium-232	4.2		<
	Uranium-238	36.5		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-250	Cesium-137	1.2		<
	Potassium-40	21.4		<
	Radium-226	6.6	0.9	
	Ruthenium-106	15.5		<
	Thorium-232	2.8	0.8	
	Uranium-238	15.3	5.6	
FMP-SL-24-252	Cesium-137	0.7		<
	Potassium-40	10		<
	Radium-226	9	0.9	
	Ruthenium-106	6.9		<
	Thorium-232	1.6		<
	Uranium-238	22.2		<
FMP-SL-24-254	Cesium-137	1.4		<
	Potassium-40	15.6	5	
	Radium-226	24.6	1.4	
	Ruthenium-106	11.1		<
	Thorium-232	2.8		<
	Uranium-238	14.6		<
FMP-SL-24-255	Cesium-137	1.1		<
	Potassium-40	20.7		<
	Radium-226	40.9	1.6	
	Ruthenium-106	14		<
	Thorium-232	2.9		<
	Uranium-238	33.2		<
FMP-SL-24-256D	Cesium-137	1.4		<
	Potassium-40	11.2		<
	Radium-226	32.3	1.5	
	Ruthenium-106	13.8		<
	Thorium-232	3		<
	Uranium-238	28.5		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-256QC	Cesium-137	13		<
	Potassium-40	9.8	3.2	
	Radium-226	32.7	1.5	
	Ruthenium-106	9.5		<
	Thorium-232	6.4		<
	Uranium-238	16.3		<
FMP-SL-24-258	Cesium-137	1.7		<
	Potassium-40	13.1	6.2	
	Radium-226	47.5	1.7	
	Ruthenium-106	13.2		<
	Thorium-232	6.7		<
	Uranium-238	34.4		<
FMP-SL-24-259	Cesium-137	1.3		<
	Potassium-40	14.6	6.8	
	Radium-226	49.1	1.7	
	Ruthenium-106	14		<
	Thorium-232	6.3		<
	Uranium-238	18.5		<
FMP-SL-24-261	Cesium-137	1.6		<
	Potassium-40	17.7		<
	Radium-226	24.5	1.5	
	Ruthenium-106	5.7		<
	Thorium-232	5.9		<
	Uranium-238	15.3		<
FMP-SL-24-262	Cesium-137	1.6		<
	Potassium-40	13.8	6.8	
	Radium-226	67	2.2	
	Ruthenium-106	8.7		<
	Thorium-232	3.5		<
	Uranium-238	39.5		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SL-24-263	Cesium-137	2.1		<
	Potassium-40	12.6	5.4	
	Radium-226	84.3	22	
	Ruthenium-106	17.2		<
	Thorium-232	4.8		<
	Uranium-238	24.2		<
FMP-SS-24-001	Cesium-137	0.5	0.2	
	Potassium-40	6.7		<
	Thorium-232	1	0.4	
	Radium-226	1.1		<
	Ruthenium-106	5.5		<
	Uranium-238	27.9	4.7	
FMP-SS-24-002	Cesium-137	0.3		<
	Potassium-40	6.8		<
	Radium-226	1.8	0.6	
	Ruthenium-106	4.1		<
	Thorium-232	2.8		<
	Uranium-238	6.1	3.4	
FMP-SS-24-002D	Cesium-137	0.5	0.2	
	Potassium-40	6.2		<
	Radium-226	2.1	0.8	
	Ruthenium-106	4		<
	Thorium-232	0.9		<
	Uranium-238	6.9	2.7	
FMP-SS-24-006	Cesium-137	0.6	0.5	
	Potassium-40	7.1	3.3	
	Radium-226	1.5	0.7	
	Ruthenium-106	6.2		<
	Thorium-232	9.6	1.1	
	Uranium-238	14.9		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SS-24-007	Cesium-137	0.6		<
	Potassium-40	8.9	3.3	
	Radium-226	0.8		<
	Ruthenium-106	6.3		<
	Thorium-232	0.8	0.4	
	Uranium-238	16.5	3.2	
FMP-SS-24-008	Cesium-137	0.7		<
	Potassium-40	7.3	3.9	
	Radium-226	1.8		<
	Ruthenium-106	6.5		<
	Thorium-232	1.4		<
	Uranium-238	30.3	5	
FMP-SS-24-009	Cesium-137	0.9		<
	Potassium-40	17.9		<
	Radium-226	7.9	0.7	
	Ruthenium-106	4		<
	Thorium-232	2.6		<
	Uranium-238	11.5		<
FMP-SS-24-010	Cesium-137	0.1		<
	Potassium-40	9	4	
	Radium-226	2.9	0.7	
	Ruthenium-106	4		<
	Thorium-232	2.9		<
	Uranium-238	16.3		<
FMP-SS-24-011	Cesium-137	0.4		<
	Potassium-40	8.2		<
	Radium-226	7.2	0.9	
	Ruthenium-106	5		<
	Thorium-232	3		<
	Uranium-238	9.5		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SS-24-012	Cesium-137	0.8		<
	Potassium-40	6.4	3	
	Radium-226	2.7	0.5	
	Ruthenium-106	4.5		<
	Thorium-232	1.2		<
	Uranium-238	7.8	3.9	
FMP-SS-24-012D	Cesium-137	0.8		<
	Potassium-40	7.8	3.3	
	Radium-226	3	0.5	
	Ruthenium-106	4.5		<
	Thorium-232	0.8	0.5	
	Uranium-238	6.1	3.4	
FMP-SS-24-013	Cesium-137	0.6	0.2	
	Potassium-40	12		<
	Radium-226	1.3		<
	Ruthenium-106	9.8		<
	Thorium-232	0.8	0.5	
	Uranium-238	4.4	2.7	
FMP-SS-24-014	Cesium-137	1.1		<
	Potassium-40	9.5	4	
	Radium-226	1	0.6	
	Ruthenium-106	7.4		<
	Thorium-232	1.4	0.6	
	Uranium-238	6.1	3.2	
FMP-SS-24-015	Cesium-137	0.7		<
	Potassium-40	12.6	4.2	
	Radium-226	5.7	0.7	
	Ruthenium-106	5.8		<
	Thorium-232	1.5		<
	Uranium-238	9.9		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SS-24-016	Cesium-137	0.6		<
	Potassium-40	10.7		<
	Radium-226	0.8	0.2	
	Ruthenium-106	0.5		<
	Thorium-232	1	0.5	
	Uranium-238	11.9		<
FMP-SS-24-018	Cesium-137	0.7		<
	Potassium-40	6.7	3.1	
	Radium-226	2.3	0.4	
	Ruthenium-106	6.1		<
	Thorium-232	2.3		<
	Uranium-238	15.2		<
FMP-SS-24-019	Cesium-137	1		<
	Potassium-40	8	3.2	
	Radium-226	2.6	0.6	
	Ruthenium-106	4.4		<
	Thorium-232	1.2	0.8	
	Uranium-238	9.5		<
FMP-SS-24-020	Cesium-137	0.3		<
	Potassium-40	10.8	4.8	
	Radium-226	3.1	0.7	
	Ruthenium-106	5.9		<
	Thorium-232	0.7		<
	Uranium-238	10.7		<
FMP-SS-24-021	Cesium-137	0.5		<
	Potassium-40	6.7	3.2	
	Radium-226	3.3	0.9	
	Ruthenium-106	0.1		<
	Thorium-232	1.3	0.7	
	Uranium-238	9		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SS-24-022	Cesium-137	0.5		<
	Potassium-40	9.7	3.8	
	Radium-226	2.4	0.5	
	Ruthenium-106	0.6		<
	Thorium-232	0.3		<
	Uranium-238	16.2		<
FMP-SS-24-022D	Cesium-137	0.4		<
	Potassium-40	9	3.7	
	Radium-226	2.4	0.6	
	Ruthenium-106	7.4		<
	Thorium-232	2.7		<
	Uranium-238	9.1	6.4	
FMP-SS-24-039	Cesium-137	1.4		<
	Potassium-40	14.1	4.8	
	Radium-226	0.9	0.7	
	Ruthenium-106	9.1		<
	Thorium-232	6	2	
	Uranium-238	7.9	3	
FMP-SS-24-043	Cesium-137	0.6	0.3	
	Potassium-40	22.5		<
	Radium-226	6.7	0.7	
	Ruthenium-106	5		<
	Thorium-230	230		<
	Thorium-232	2.2		<
	Uranium-238	30.5		<
FMP-SS-24-046	Cesium-137	1.6		<
	Potassium-40	6.8	3.8	
	Radium-226	23.3	1.2	
	Ruthenium-106	10.1		<
	Thorium-230	505	292	
	Thorium-232	3		<
	Uranium-238	53		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SS-24-047	Cesium-137	1.9		<
	Potassium-40	13.4	5.6	
	Radium-226	33.1	1.5	
	Ruthenium-106	8.3		<
	Thorium-230	353	176	
	Thorium-232	4.4		<
	Uranium-238	5.5	3	
FMP-SS-24-050	Cesium-137	1.5		<
	Potassium-40	9.1	5	
	Radium-226	25.9	1.3	
	Ruthenium-106	8.7		<
	Thorium-232	3.9		<
	Thorium-230	594	240	
	Uranium-238	21.1	9.2	
FMP-SS-24-053	Cesium-137	1.5		<
	Potassium-40	6.3	3.1	
	Radium-226	1	0.4	
	Ruthenium-106	6.4		<
	Thorium-230	300		<
	Thorium-232	5	0.8	
	Uranium-238	6.8	3	
FMP-SS-24-057	Cesium-137	0.4	0.2	
	Potassium-40	7.7	3.1	
	Radium-226	2.2	0.5	
	Ruthenium-106	8.2		<
	Thorium-230	330		<
	Thorium-232	0.3		<
	Uranium-238	11.2	4	

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SS-24-060	Cesium-137	0.6	0.3	
	Potassium-40	7.5	3	
	Radium-226	2.3	0.5	
	Ruthenium-106	0.6		<
	Thorium-230	287		<
	Thorium-232	1.6	0.8	
	Uranium-238	8.5	3.1	
FMP-SS-24-064	Cesium-137	0.3	0.2	
	Potassium-40	10.1	3.8	
	Radium-226	2		<
	Ruthenium-106	3.6		<
	Thorium-232	2.1		<
	Uranium-238	58.3	5.7	
FMP-SS-24-066	Cesium-137	0.5	0.2	
	Potassium-40	7	4	
	Radium-226	0.6	0.3	
	Ruthenium-106	2.7		<
	Thorium-232	0.3		<
	Uranium-238	27.4	4	
FMP-SS-24-068	Cesium-137	0.3		<
	Potassium-40	8.8	2.4	
	Radium-226	4.3	0.6	
	Ruthenium-106	9		<
	Thorium-232	1.9	0.7	
	Uranium-238	5		<
FMP-SS-24-070	Cesium-137	0.6		<
	Potassium-40	10.9	3.8	
	Radium-226	2.2	0.4	
	Ruthenium-106	0.5		<
	Thorium-232	1.9		<
	Thorium-230	105	96	
	Uranium-238	15.4		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SS-24-072	Cesium-137	0.8		<
	Potassium-40	8.1	3.3	
	Radium-226	2.4	0.6	
	Ruthenium-106	5.7		<
	Thorium-232	2.4	0.5	
	Uranium-238	14.5		<
FMP-SS-24-075	Cesium-137	1.8		<
	Potassium-40	10.3	4.8	
	Radium-226	3.6		<
	Ruthenium-106	13.2		<
	Thorium-232	6.8		<
	Uranium-238	412	26	
FMP-SS-24-075D	Cesium-137	2		<
	Potassium-40	1.4		<
	Radium-226	2.9		<
	Ruthenium-106	17		<
	Thorium-232	5.5		<
	Uranium-238	360	26	
FMP-SS-24-077	Cesium-137	0.5		<
	Potassium-40	7.7		<
	Radium-226	8.3	0.8	
	Ruthenium-106	6.9		<
	Thorium-232	2.4	1	
	Uranium-238	5.3	3.3	
FMP-SS-24-081	Cesium-137	6		<
	Potassium-40	7.6		<
	Radium-226	12.4		<
	Ruthenium-106	57.4		<
	Thorium-232	18		<
	Uranium-238	2180	72	

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SS-24-084	Cesium-137	0.7		<
	Potassium-40	19.1		<
	Radium-226	20.9	1.4	
	Ruthenium-106	8.3		<
	Thorium-232	5.2		<
	Uranium-238	12.2		<
FMP-SS-24-087	Cesium-137	1		<
	Potassium-40	10.2		<
	Radium-226	15.3	1.2	
	Ruthenium-106	8.2		<
	Thorium-232	4.2		<
	Uranium-238	10.2		<
FMP-SS-24-089	Cesium-137	0.7		<
	Potassium-40	11.9		<
	Radium-226	14.5	0.9	
	Ruthenium-106	6.2		<
	Thorium-232	2.4		<
	Uranium-238	18.8		<
FMP-SS-24-092	Cesium-137	0.6	0.4	
	Potassium-40	10.7	3.9	
	Radium-226	4.1	0.6	
	Ruthenium-106	0.5		<
	Thorium-232	2	0.9	
	Uranium-238	7.9		<
FMP-SS-24-093	Cesium-137	1.4		<
	Potassium-40	9.9	4.5	
	Radium-226	42.5	1.8	
	Ruthenium-106	9.4		<
	Thorium-232	4.8		<
	Uranium-238	34.5		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SS-24-096	Cesium-137	1.1		<
	Potassium-40	8.3		<
	Radium-226	11.2	1.1	
	Ruthenium-106	11.2		<
	Thorium-232	2		<
	Uranium-238	12.7		<
FMP-SS-24-096D	Cesium-137	1		<
	Potassium-40	11.2		<
	Radium-226	11.6	1.1	
	Ruthenium-106	3.5		<
	Thorium-232	2.3		<
	Uranium-238	13.3		<
FMP-SS-24-099	Cesium-137	0.5		<
	Potassium-40	9.9	3.8	
	Radium-226	5.5	0.7	
	Ruthenium-106	3.4		<
	Thorium-232	3.3		<
	Uranium-238	10.2		<
FMP-SS-24-101	Cesium-137	0.7	0.2	
	Potassium-40	11.1	4.1	
	Radium-226	4.9	0.3	
	Ruthenium-106	3.2		<
	Thorium-232	3.2		<
	Uranium-238	3.7	2.2	
FMP-SS-24-103	Cesium-137	0.5		<
	Potassium-40	7.2	3.2	
	Radium-226	5.1	0.6	
	Ruthenium-106	5.1		<
	Thorium-232	1.7		<
	Uranium-238	8.3		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SS-24-106	Cesium-137	0.8		<
	Potassium-40	8		<
	Radium-226	8.8	0.7	
	Ruthenium-106	5.4		<
	Thorium-232	2.8		<
	Uranium-238	10.5		<
FMP-SS-24-106D	Cesium-137	0.4		<
	Potassium-40	10.8	3.7	
	Radium-226	9	0.7	
	Ruthenium-106	6.5		<
	Thorium-232	2.1		<
	Uranium-238	17.7		<
FMP-SS-24-108	Cesium-137	0.5		<
	Potassium-40	8.7	3.6	
	Radium-226	7.1	0.8	
	Ruthenium-106	3.7		<
	Thorium-232	3.7		<
	Uranium-238	16.3		<
FMP-SS-24-112	Cesium-137	3.4		<
	Potassium-40	27.8		<
	Radium-226	76.6	2.8	
	Ruthenium-106	27.8		<
	Thorium-232	4.3		<
	Uranium-238	63.1		<
FMP-SS-24-115	Cesium-137	2		<
	Potassium-40	13		<
	Radium-226	36.9	1.8	
	Ruthenium-106	10.9		<
	Thorium-232	4.1		<
	Uranium-238	12.7	5.6	

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SS-24-120	Cesium-137	0.7		<
	Potassium-40	7.2	3.4	
	Radium-226	2	0.9	
	Ruthenium-106	12.2		<
	Thorium-232	11.9	2.4	
	Uranium-238	32.1	9	
FMP-SS-24-123	Cesium-137	2.9		<
	Potassium-40	29		<
	Radium-226	121	2.7	
	Ruthenium-106	16.5		<
	Thorium-232	5.3		<
	Uranium-238	39.8		<
FMP-SS-24-126	Cesium-137	1.4		<
	Potassium-40	9.5	4.9	
	Radium-226	16.7	0.9	
	Ruthenium-106	4.8		<
	Thorium-232	2.9		<
	Uranium-238	25.9		<
FMP-SS-24-129	Cesium-137	0.6		<
	Potassium-40	8.3	3.2	
	Radium-226	12.6	1	
	Ruthenium-106	4.6		<
	Thorium-232	1.8		<
	Uranium-238	15.2		<
FMP-SS-24-133	Cesium-137	3.7		<
	Potassium-40	18.4		<
	Radium-226	214	4	
	Ruthenium-106	26.5		<
	Thorium-232	10		<
	Uranium-238	50.2		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SS-24-140	Cesium-137	0.8		<
	Potassium-40	4.3	3	
	Radium-226	1.1		<
	Ruthenium-106	7.1		<
	Thorium-232	21.1	2.7	
	Uranium-238	20.1		<
FMP-SS-24-142	Cesium-137	2		<
	Potassium-40	15.9	6.2	
	Radium-226	3.1		<
	Ruthenium-106	10.2		<
	Thorium-232	70.2	6	
	Uranium-238	37.3	12	
FMP-SS-24-146	Cesium-137	0.8		<
	Potassium-40	8.1	4.3	
	Radium-226	15.7	1	
	Ruthenium-106	4.3		<
	Thorium-232	0.9		<
	Uranium-238	12.4		<
FMP-SS-24-146D	Cesium-137	0.5		<
	Potassium-40	10.6		<
	Radium-226	16.1	1	
	Ruthenium-106	6.5		<
	Thorium-232	4		<
	Uranium-238	12.7		<
FMP-SS-24-148	Cesium-137	1		<
	Potassium-40	8.2	3.2	
	Radium-226	10.1	0.9	
	Ruthenium-106	6.5		<
	Thorium-232	2.8		<
	Uranium-238	4.5	3.4	

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SS-24-151	Cesium-137	1.3		<
	Potassium-40	10.2	4.9	
	Radium-226	32.1	1.4	
	Ruthenium-106	9.4		<
	Thorium-232	4.5		<
	Uranium-238	27.3		<
FMP-SS-24-156	Cesium-137	0.6	0.3	
	Potassium-40	10.5	3.6	
	Radium-226	6.2	0.7	
	Ruthenium-106	3.3		<
	Thorium-232	2.2	0.8	
	Uranium-238	5.3	2.8	
FMP-SS-24-156D	Cesium-137	0.5		<
	Potassium-40	12	4.1	
	Radium-226	6	0.9	
	Ruthenium-106	15.7		<
	Thorium-232	2.7	0.9	
	Uranium-238	18.5		<
FMP-SS-24-158	Cesium-137	1.5		<
	Potassium-40	9.9	3.5	
	Radium-226	9.8	0.9	
	Ruthenium-106	5.7		<
	Thorium-232	2.4	0.7	
	Uranium-238	36.1		<
FMP-SS-24-159	Cesium-137	0.9		<
	Potassium-40	10.2		<
	Radium-226	10.9	0.9	
	Ruthenium-106	7.5		<
	Thorium-232	2.8		<
	Uranium-238	6.2	4.7	

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SS-24-162	Cesium-137	1.2		<
	Potassium-40	8.3		<
	Radium-226	9.7	0.9	
	Ruthenium-106	7.4		<
	Thorium-232	2.1		<
	Uranium-238	15.9		<
FMP-SS-24-165	Cesium-137	1.3		<
	Potassium-40	8.5	3.5	
	Radium-226	10	0.9	
	Ruthenium-106	5.7		<
	Thorium-232	1.2	0.5	
	Uranium-238	25.7		<
FMP-SS-24-167	Cesium-137	0.6		<
	Potassium-40	12.2	4.3	
	Radium-226	4.2	0.6	
	Ruthenium-106	4.1		<
	Thorium-232	0.9	0.4	
	Uranium-238	12.4		<
FMP-SS-24-170	Cesium-137	1.6		<
	Potassium-40	6.7	2.3	
	Radium-226	14.5	1.1	
	Ruthenium-106	2.6		<
	Thorium-232	11		<
	Uranium-238	12.2		<
FMP-SS-24-173	Cesium-137	1.7		<
	Potassium-40	15.8		<
	Radium-226	1	0.6	
	Ruthenium-106	20.6		<
	Thorium-232	6.3	2.5	
	Uranium-238	18.7	5.8	

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SS-24-176	Cesium-137	1.1		<
	Potassium-40	7.7	3.3	
	Radium-226	0.8	0.3	
	Ruthenium-106	5.9		<
	Thorium-232	3.1	0.5	
	Uranium-238	8.9	3.6	
FMP-SS-24-176D	Cesium-137	0.4		<
	Potassium-40	5.4		<
	Radium-226	0.6	0.4	
	Ruthenium-106	5.9		<
	Thorium-232	3	0.6	
	Uranium-238	5.2	4	
FMP-SS-24-180	Cesium-137	0.1		<
	Potassium-40	17.8		<
	Radium-226	0.6	0.4	
	Ruthenium-106	8		<
	Thorium-232	2.9	0.5	
	Uranium-238	11.8		<
FMP-SS-24-183	Cesium-137	1.2		<
	Potassium-40	9.4	3.7	
	Radium-226	4.2		<
	Ruthenium-106	21.9		<
	Thorium-232	22.9	1.3	
	Uranium-238	43.3		<
FMP-SS-24-185	Cesium-137	1.1		<
	Potassium-40	7.5	3	
	Radium-226	1	0.7	
	Ruthenium-106	12.3		<
	Thorium-232	0.6	0.3	
	Uranium-238	7.5	4.6	

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SS-24-189	Cesium-137	1.1		<
	Potassium-40	14.7		<
	Radium-226	32.3	1.5	
	Ruthenium-106	10.7		<
	Thorium-232	8.6		<
	Uranium-238	27.4		<
FMP-SS-24-193	Cesium-137	1.2		<
	Potassium-40	19.9		<
	Radium-226	10.8	0.8	
	Ruthenium-106	9.7		<
	Thorium-232	4.3		<
	Uranium-238	14.3		<
FMP-SS-24-196	Cesium-137	1.6		<
	Potassium-40	19.9		<
	Radium-226	22.1	1.3	
	Ruthenium-106	9.2		<
	Thorium-232	2.9		<
	Uranium-238	44.4	9.5	
FMP-SS-24-196D	Cesium-137	1.1		<
	Potassium-40	9.6		<
	Radium-226	21.9	1.2	
	Ruthenium-106	8.4		<
	Thorium-232	2.4		<
	Uranium-238	52.4	8.8	
FMP-SS-24-198	Cesium-137	1.3		<
	Potassium-40	15.9	4.2	
	Radium-226	26.9	1.3	
	Ruthenium-106	11.1		<
	Thorium-232	3.5		<
	Uranium-238	18.3		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SS-24-201	Cesium-137	0.5	0.3	
	Potassium-40	10.2	4.3	
	Radium-226	1.5	0.5	
	Ruthenium-106	11.7		<
	Thorium-232	4.8	0.8	
	Uranium-238	5.8		<
FMP-SS-24-205	Cesium-137	1.5		<
	Potassium-40	11.6	4.2	
	Radium-226	14.2	1.1	
	Ruthenium-106	5.9		<
	Thorium-232	2.4		<
	Uranium-238	15.6		<
FMP-SS-24-208	Cesium-137	0.7		<
	Potassium-40	12.1		<
	Radium-226	1.2	0.5	
	Ruthenium-106	4.7		<
	Thorium-232	2.8		<
	Uranium-238	23.3	4.9	
FMP-SS-24-209	Cesium-137	0.3		<
	Potassium-40	8.5		<
	Radium-226	1.9	0.4	
	Ruthenium-106	5		<
	Thorium-232	0.9	0.6	
	Uranium-238	10.8		<
FMP-SS-24-210	Cesium-137	0.1		<
	Potassium-40	11	4.2	
	Radium-226	0.9	0.5	
	Ruthenium-106	5.5		<
	Thorium-232	1.1	0.4	
	Uranium-238	6	2.3	

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SS-24-211	Cesium-137	0.3		<
	Potassium-40	13.4	6.7	
	Radium-226	1.2	0.5	
	Ruthenium-106	6.4		<
	Thorium-232	0.8	0.7	
	Uranium-238	39	6	
FMP-SS-24-212	Cesium-137	0.5		<
	Potassium-40	0.9		<
	Radium-226	0.6	0.3	
	Ruthenium-106	0.5		<
	Thorium-232	2.3		<
	Uranium-238	51.6	6.3	
FMP-SS-24-220	Cesium-137	0.8		<
	Potassium-40	6.6	3.1	
	Radium-226	0.5	0.3	
	Ruthenium-106	0.5		<
	Thorium-232	0.3		<
	Uranium-238	17.5	4.6	
FMP-SS-24-221	Cesium-137	0.6		<
	Potassium-40	5	2.6	
	Radium-226	1.2	0.6	
	Ruthenium-106	6.8		<
	Thorium-232	0.9	0.6	
	Uranium-238	72.9	7.5	
FMP-SS-24-223	Cesium-137	0.6	0.4	
	Potassium-40	23.5		<
	Radium-226	0.9	0.6	
	Ruthenium-106	9.1		<
	Thorium-232	5.7		<
	Uranium-238	42.4	5.4	

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SS-24-229	Cesium-137	1.7		<
	Potassium-40	18		<
	Radium-226	23.9	1.6	
	Ruthenium-106	13.6		<
	Thorium-232	7.6		<
	Uranium-238	13.2		<
FMP-SS-24-232	Cesium-137	1		<
	Potassium-40	29.4		<
	Radium-226	12.2	0.7	
	Ruthenium-106	3.9		<
	Thorium-230	161	135	
	Thorium-232	5.6		<
FMP-SS-24-235	Uranium-238	13.3	4.6	
	Cesium-137	2.1		<
	Potassium-40	13.9		<
	Radium-226	12.5	1.5	
	Ruthenium-106	16.4		<
	Thorium-232	19.1	2	
FMP-SS-24-237	Uranium-238	28.8	10.1	
	Cesium-137	1.9		<
	Potassium-40	10.4	4.3	
	Radium-226	10.5	1.2	
	Ruthenium-106	12.8		<
	Thorium-232	2.7		<
FMP-SS-24-238	Uranium-238	31		<
	Cesium-137	0.5		<
	Potassium-40	22.6		<
	Radium-226	10.7	1.1	
	Ruthenium-106	9		<
	Thorium-232	4.5		<
	Uranium-238	20.4		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SS-24-243	Cesium-137	0.5		<
	Potassium-40	16.4	3.1	
	Radium-226	2.3	0.7	
	Ruthenium-106	3.3		<
	Thorium-232	0.4		<
	Uranium-238	19.2		<
FMP-SS-24-244	Cesium-137	2		<
	Potassium-40	1.6		<
	Radium-226	16.9	1.2	
	Ruthenium-106	130		<
	Thorium-232	0.6		<
	Uranium-238	14.9		<
FMP-SS-24-245	Cesium-137	1		<
	Potassium-40	11.1	4.4	
	Radium-226	13.5	1.1	
	Ruthenium-106	10.2		<
	Thorium-232	3.5		<
	Uranium-238	23.7		<
FMP-SS-24-249	Cesium-137	1.3		<
	Potassium-40	11.1	4.4	
	Radium-226	9.8	0.8	
	Ruthenium-106	6		<
	Thorium-232	2.5	0.7	
	Uranium-238	20.2	3.8	
FMP-SS-24-251	Cesium-137	1.8		<
	Potassium-40	21.9		<
	Radium-226	10.8	1	
	Ruthenium-106	6.1		<
	Thorium-232	3.3		<
	Uranium-238	27.4		<

TABLE F-15B
(Continued)

FEMP ID #	Isotope	Activity (pCi/g)	Uncertainty	Laboratory Qualifier
FMP-SS-24-253	Cesium-137	2		<
	Potassium-40	12.3	4.9	
	Radium-226	26.3	1.5	
	Ruthenium-106	13.3		<
	Thorium-232	3.3		<
	Uranium-238	21.9		<
FMP-SS-24-257	Cesium-137	1.7		<
	Potassium-40	17.1	5.7	
	Radium-226	55.5	2	
	Ruthenium-106	15.5		<
	Thorium-232	4.3		<
	Uranium-238	35.1		<
FMP-SS-24-260	Cesium-137	0.7		<
	Potassium-40	9.9	4.2	
	Radium-226	11.6	0.9	
	Ruthenium-106	4.1		<
	Thorium-232	2.7		<
	Uranium-238	19.5		<

TABLE F-15C
SOUTH FIELD
CIS FIDLER SURFACE READINGS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Coordinates		Reading (CPM)
North	East	
478051.41	1379100.00	18359.00
478057.66	1379100.13	14355.00
478063.91	1379100.38	13044.00
478063.91	1379100.38	5927.00
477863.81	1379101.13	12025.00
477870.06	1379101.25	11905.00
477876.31	1379101.50	11812.00
477882.56	1379101.63	12171.00
477888.81	1379101.75	9494.00
478113.91	1379101.75	5247.00
478163.88	1379103.13	12475.00
478163.88	1379103.13	5802.00
478170.13	1379103.25	11112.00
478176.38	1379103.38	9928.00
478182.63	1379103.63	8449.00
478188.88	1379103.75	10292.00
478195.13	1379104.00	10191.00
478201.38	1379104.13	13606.00
477988.78	1379104.50	17752.00
477995.03	1379104.75	22046.00
478001.28	1379104.88	18182.00
478007.53	1379105.00	18439.00
478013.75	1379105.25	15076.00
478020.00	1379105.38	10409.00
478026.25	1379105.63	12527.00
478032.50	1379105.75	14493.00
478038.75	1379105.88	21908.00
478045.00	1379106.13	18819.00
478051.25	1379106.25	18182.00
478057.50	1379106.38	14185.00
478063.75	1379106.63	12686.00
477863.66	1379107.38	10017.00
477869.91	1379107.50	11236.00
477876.16	1379107.75	12606.00
477886.63	1379108.00	11174.00
478163.72	1379109.38	11386.00
478169.97	1379109.50	9203.00
478176.22	1379109.63	10249.00
478182.44	1379109.88	12097.00
478188.69	1379110.00	12712.00

TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
478194.94	1379110.25	14928.00
477988.59	1379110.75	16760.00
477994.84	1379111.00	22916.00
478001.09	1379111.13	17965.00
478007.34	1379111.25	20306.00
478013.59	1379111.50	20271.00
478019.84	1379111.63	13794.00
478026.09	1379111.88	14286.00
478032.34	1379112.00	22223.00
478038.59	1379112.13	20067.00
478044.84	1379112.38	26432.00
478051.09	1379112.50	19803.00
478057.31	1379112.63	13762.00
478063.56	1379112.88	13857.00
477863.47	1379113.63	10850.00
477869.72	1379113.75	12171.00
477875.97	1379114.00	14926.00
477882.22	1379114.13	13954.00
477888.47	1379114.25	10668.00
478163.53	1379115.63	11112.00
478169.78	1379115.75	8747.00
478176.03	1379115.88	10564.00
478182.28	1379116.13	11010.00
478188.53	1379116.25	12606.00
477988.44	1379117.00	20271.00
477994.69	1379117.25	24591.00
478000.94	1379117.38	34882.00
478007.19	1379117.50	45803.00
478013.44	1379117.75	1878.00
478019.66	1379117.88	21583.00
478025.91	1379118.13	23256.00
478032.16	1379118.25	27150.00
478038.41	1379118.38	29851.00
478044.66	1379118.63	21740.00
478050.91	1379118.75	17000.00
478057.16	1379118.88	17143.00
478063.41	1379119.13	13353.00
477863.31	1379119.88	9601.00
477869.56	1679120.00	11905.00
477875.81	1379120.25	12073.00
477882.06	1379120.38	12475.00
477888.31	1379120.50	11112.00
478163.38	1379121.88	11696.00
478169.63	1379122.00	10034.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
478175.88	1379122.13	12146.00
478182.09	1379122.38	10417.00
478188.34	1379122.50	13730.00
477988.25	1379123.25	21908.00
477994.50	1379123.50	28197.00
478000.75	1379123.63	52244.00
478007.00	1379123.75	109900.00
478013.25	1379124.00	38721.00
478019.50	1379124.13	34685.00
478025.75	1379124.38	32978.00
478032.00	1379124.50	64730.00
478038.25	1379124.63	27273.00
478044.50	1379124.88	26786.00
478050.75	1379125.00	19428.00
478057.00	1379125.13	16359.00
478063.22	1379125.38	13187.00
478163.19	1379128.13	10979.00
478169.44	1379128.25	10409.00
478175.69	1379128.38	12553.00
478181.94	1379128.63	11868.00
478188.19	1379128.75	13246.00
477988.09	1379129.50	24490.00
477994.34	1379129.75	61860.00
478000.59	1379129.88	56759.00
478006.84	1379130.00	208340.00
478013.09	1379130.25	192310.00
478019.31	1379130.38	56088.00
478025.56	1379130.63	46876.00
478031.81	1379130.75	66230.00
478038.06	1379130.88	48398.00
478044.31	1379131.13	20980.00
478050.56	1379131.25	15464.00
478056.81	1379131.38	13168.00
478063.06	1379131.63	13514.00
477987.91	1379135.75	35140.00
477994.16	1379136.00	47620.00
478000.41	1379136.13	42563.00
478006.66	1379136.25	98690.00
478012.91	1379136.50	24190.00
478019.16	1379136.63	98910.00
478025.41	1379136.75	41096.00
478031.66	1379137.00	114800.00
478037.91	1379137.13	61370.00
478044.16	1379137.38	24692.00

TABLE F-15C
(Continued)

Coordinates			
		Reading (CPM)	
North	East	Reading (CPM)	
478050.41	1379137.50	13575.00	
478056.66	1379137.63	14743.00	
478062.88	1379137.88	12821.00	
477712.69	1379140.75	4632.00	
477987.75	1379142.00	30587.00	
477762.66	1379142.13	4129.00	
477994.00	1379142.25	38462.00	
478000.25	1379142.38	40001.00	
478006.50	1379142.50	51725.00	
478012.75	1379142.75	64240.00	
478019.00	1379142.88	226420.00	
478025.22	1379143.00	200670.00	
478031.47	1379143.25	21127.00	
478037.72	1379143.38	24897.00	
478043.97	1379143.63	20135.00	
478050.22	1379143.75	17805.00	
478056.47	1379143.88	11977.00	
478062.72	1379144.13	13514.00	
477862.63	1379144.88	5551.00	
477912.59	1379146.25	4001.00	
477962.59	1379147.63	5474.00	
477987.56	1379148.25	29127.00	
477993.81	1379148.50	43166.00	
478000.06	1379148.63	39474.00	
478006.31	1379148.75	51674.00	
478012.56	1379149.00	37858.00	
478012.56	1379149.00	64730.00	
478013.81	1379149.13	90370.00	
478025.06	1379149.25	61290.00	
478031.31	1379149.50	26907.00	
478037.56	1379149.63	10518.00	
478043.81	1379149.88	15585.00	
478050.06	1379150.00	13922.00	
478056.31	1379150.13	10850.00	
478062.56	1379150.38	13484.00	
478062.56	1379150.38	6494.00	
478068.78	1379150.50	13545.00	
478075.03	1379150.63	10870.00	
478081.28	1379150.88	12397.00	
478087.53	1379151.00	13575.00	
478093.78	1379151.13	13678.00	
478100.03	1379151.38	11674.00	
478106.28	1379151.50	13044.00	
478112.53	1379151.75	11300.00	

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
478112.53	1379151.75	5755.00
478162.50	1379153.13	5422.00
477987.41	1379154.50	25899.00
477993.66	1379154.75	30938.00
477999.91	1379154.88	33008.00
478006.16	1379155.00	71360.00
478012.41	1379155.25	34883.00
478018.66	1379155.38	67210.00
478024.91	1379155.50	12459.00
478031.13	1379155.75	15626.00
478037.38	1379155.88	22819.00
478037.38	1379155.88	16950.00
478043.63	1379156.13	14706.00
478049.88	1379156.25	12475.00
478056.13	1379156.38	10939.00
478062.38	1379156.63	13423.00
478068.63	1379156.75	14635.00
478074.88	1379156.88	12423.00
478081.13	1379157.13	23256.00
478087.38	1379157.25	14564.00
478093.63	1379157.38	12059.00
478099.88	1379157.63	11953.00
478106.13	1379157.75	11321.00
478112.34	1379158.00	12124.00
477987.25	1379160.75	20980.00
477993.47	1379161.00	23427.00
477999.72	1379161.13	46137.00
478005.97	1379161.25	24591.00
478012.22	1379161.50	37048.00
478018.47	1379161.63	12606.00
478024.72	1379161.75	11549.00
478030.97	1379162.00	13606.00
478037.22	1379162.13	15307.00
478037.22	1379162.13	16130.00
478043.47	1379162.38	13608.00
478049.72	1379162.50	12821.00
478055.97	1379162.63	14538.00
478062.22	1379162.88	12372.00
478068.47	1379163.00	13216.00
478074.69	1379163.13	12146.00
478080.94	1379163.38	19618.00
478087.19	1379163.50	23716.00
478093.44	1379163.63	10564.00
478099.69	1379163.88	12146.00

TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
478105.94	1379164.00	11112.00
478112.19	1379164.25	10622.00
477987.06	1379167.00	15545.00
477993.31	1379167.25	16086.00
477999.58	1379167.38	20388.00
478005.81	1379167.50	22642.00
478012.06	1379167.75	17544.00
478018.31	1379167.88	13545.00
478024.56	1379168.00	12220.00
478030.81	1379168.25	13101.00
478037.03	1379168.38	13216.00
478037.03	1379168.38	17342.00
478043.28	1379168.50	13730.00
478049.53	1379168.75	11407.00
478055.78	1379168.88	11517.00
477836.94	1379169.13	11439.00
478062.03	1379169.13	13246.00
478068.28	1379169.25	13016.00
477843.19	1379169.38	12459.00
478074.53	1379169.38	11091.00
477849.44	1379169.50	11153.00
477855.69	137169.63	8311.00
478080.78	1379169.63	15874.00
478087.03	1379169.75	23077.00
477861.94	1379169.88	11765.00
478093.28	1379169.88	10170.00
477868.19	1379170.00	10620.00
478099.53	1379170.13	11742.00
477874.44	1379170.25	10222.00
478105.78	1379170.25	11195.00
477880.69	1379170.38	12146.00
477886.94	1379170.50	14185.00
478112.03	1379170.50	11868.00
477893.19	1379170.75	11638.00
477899.44	1379170.88	11343.00
477905.69	1379171.00	9757.00
477911.91	1379171.25	9147.00
477986.91	1379173.25	20419.00
477993.13	1379173.50	20001.00
477999.38	1379173.63	22901.00
478005.63	1379173.75	22141.00
478011.88	1379174.00	15707.00
478018.13	1379174.13	14424.00
478024.38	1379174.25	21583.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
478030.63	1379174.50	14355.00
478036.88	1379174.63	14320.00
478036.88	1379174.63	15190.00
478043.13	1379174.75	17008.00
478049.38	1379175.00	15832.00
478055.63	1379175.13	14252.00
477836.78	1379175.38	11696.00
478061.88	1379175.38	11835.00
478068.13	1379175.50	15239.00
477843.03	1379175.63	9405.00
478074.38	1379175.63	10890.00
477849.28	1379175.75	10753.00
477855.53	1379175.88	10129.00
478080.59	1379175.88	8669.00
478086.84	1379176.00	14635.00
477861.78	1379176.03	9984.00
478093.09	1379173.13	11451.00
478099.34	1379176.38	11561.00
477874.25	1379176.50	9741.00
478105.59	1379176.50	11905.00
477880.50	1379176.63	11549.00
477886.75	1379176.75	14926.00
478111.84	1379176.75	12262.00
477893.00	1379177.00	11050.00
477899.25	1379177.13	14670.00
477905.50	1379187.25	10102.00
477911.75	1379177.50	10696.00
477836.59	1379181.63	9837.00
478061.69	1379181.63	13514.00
478067.94	1379181.75	12122.00
477842.84	1379181.88	9853.00
478074.19	1379181.88	12794.00
477849.09	1379182.00	11905.00
478080.44	1379182.13	8043.00
477861.59	1379182.38	10453.00
478086.69	1379182.25	12321.00
478092.94	1379182.38	11899.00
478092.94	1379182.38	11899.00
477867.84	1379182.50	10990.00
478099.19	1379182.63	12059.00
477874.09	1379182.75	8903.00
478105.44	1379182.75	12321.00
477880.34	1379182.88	9231.00
477886.59	1379183.00	13334.00

TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
470111.69	1379183.00	10527.00
477892.84	1379183.25	14670.00
477899.09	1379183.38	10257.00
477905.34	1379183.50	10649.00
477911.59	1379183.75	10187.00
477836.44	1379187.88	12296.00
478061.53	1379187.88	11549.00
478067.78	1379188.00	14538.00
477842.69	1379188.13	8646.00
478074.03	1379188.13	11725.00
477848.94	1379188.25	15239.00
477855.19	1379188.38	9434.00
478080.25	1379188.38	8903.00
478086.50	1379188.50	8558.00
477861.44	1379188.63	11868.00
478097.75	1379188.63	10435.00
477867.69	1379188.75	9133.00
477873.91	1379188.88	9637.00
478099.00	1379188.88	11174.00
478105.25	1379189.00	13339.00
477880.16	1379189.13	11765.00
478111.50	1379189.13	10935.00
477886.41	1379189.25	14252.00
477892.66	1379189.50	13393.00
477898.91	1379189.63	11729.00
477905.16	1379189.75	10890.00
477911.41	1379190.00	10257.00
478061.34	1379194.13	12171.00
478067.59	1379194.25	15307.00
478073.84	1379194.38	13922.00
478080.09	1379194.63	9459.00
478086.34	1379194.75	9494.00
478092.59	1379194.88	10677.00
478098.84	1379195.13	13044.00
478105.09	1379195.25	11729.00
478111.34	1379195.38	112616.00
477886.25	1379195.50	18217.00
477892.50	1379195.75	20135.00
477898.75	1379195.88	11742.00
477905.00	1379196.00	10490.00
477911.25	1379196.25	10381.00
477911.25	1379196.25	5035.00
477961.22	1379197.63	5033.00
478061.19	1379200.38	12001.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
478061.19	1379200.38	5699.00
478067.44	1379200.50	15114.00
478073.69	1379200.63	14151.00
478079.94	1379200.88	11195.00
478086.16	1379201.00	10564.00
478092.41	1379201.13	13762.00
478098.66	1379201.38	15759.00
478104.91	1379201.50	13216.00
478111.16	1379201.63	11953.00
478111.16	1379201.63	5712.00
477886.06	1379201.75	29279.00
477892.31	1379202.00	33334.00
477898.56	1379202.13	11651.00
477904.81	1379202.25	10363.00
477911.06	1379202.50	8979.00
478061.00	1379206.50	11071.00
478067.25	1379206.75	13484.00
478073.50	1379206.88	11674.00
478079.75	1379207.13	10850.00
478086.00	1379207.25	16950.00
478092.25	1379207.38	18878.00
478098.50	1379207.63	12001.00
478104.75	1379207.75	11696.00
478111.00	1379207.88	10620.00
477885.91	1379208.00	39736.00
477892.16	1379208.25	11742.00
477898.41	1379208.38	11868.00
477904.66	1379208.50	9885.00
477910.91	1379208.75	11561.00
478067.09	1379213.00	13393.00
478073.34	1379213.13	13637.00
478079.59	1379213.38	11577.00
478085.84	1379213.50	12632.00
478092.06	1379213.63	17868.00
478098.31	1379213.88	12772.00
478110.81	1379214.13	11696.00
477885.72	1379214.25	17095.00
477891.97	1379214.50	11729.00
477898.22	1379214.63	10773.00
477904.47	1379214.75	11343.00
477910.72	1379215.00	9631.00
478060.66	1379219.00	11584.00
478066.91	1379219.25	12146.00
478073.16	1379219.38	13730.00

TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
478079.41	1379219.63	10545.00
478085.66	1379219.75	15307.00
478091.91	1379219.88	18405.00
478098.16	1379220.13	9934.00
478104.41	1379220.25	11905.00
478110.66	1379220.38	11289.00
477885.56	1379220.50	11905.00
477891.81	1379220.63	10912.00
477898.06	1379220.88	10249.00
477904.31	1379221.00	10129.00
477910.56	1379221.25	10017.00
478060.50	1379225.25	10677.00
478066.75	1379225.50	11606.00
478073.00	1379225.63	10601.00
478079.25	1379225.88	9837.00
478085.50	1379226.00	20135.00
477860.41	1379226.13	16359.00
478091.75	1379226.13	113430.00
477866.66	1379226.25	15114.00
477872.91	1379226.38	17095.00
478097.97	1379226.38	10345.00
478104.22	1379226.50	11796.00
477879.16	1379226.63	15425.00
478110.47	1379226.63	11289.00
477885.41	1379226.75	13987.00
478060.31	1379231.50	10715.00
477835.25	1379231.63	15278.00
478066.56	1379231.75	10129.00
477841.50	1379231.88	12527.00
478072.81	1379231.88	14320.00
477847.72	1379232.00	19803.00
477853.97	1379232.13	15190.00
478079.06	1379232.13	9984.00
478085.31	1379232.25	18634.00
477860.22	1379232.38	20558.00
478091.56	1379232.38	14320.00
477866.47	1379232.50	11651.00
477872.72	1379232.63	16086.00
478097.81	1379232.63	10518.00
478104.06	1379232.75	11765.00
477878.97	1379232.88	8427.00
478110.31	1379232.88	10583.00
477885.22	1379233.00	13678.00
477835.06	1379237.88	13453.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477841.31	1379238.00	15152.00
478066.41	1379238.00	10102.00
478072.66	1379238.13	12270.00
477847.56	1379238.25	14743.00
478078.91	1379238.25	11174.00
477853.81	1379238.38	17046.00
478085.16	1379238.50	8979.00
477860.06	1379238.63	15152.00
478091.41	1379238.63	12589.00
477866.31	1379238.75	19934.00
477872.56	1379238.88	14399.00
478097.63	1379238.88	10129.00
478103.88	1379239.00	12527.00
477878.814	1379239.13	20762.00
478110.13	1379239.13	10345.00
477885.06	1379239.25	11953.00
477809.91	1379243.50	5907.00
478059.97	1379244.00	9741.00
477834.91	1379244.13	13730.00
477841.16	1379244.25	12632.00
478066.22	1379244.25	12321.00
478072.47	1379244.38	12632.00
477847.41	1379244.50	12346.00
478078.72	1379244.50	11882.00
477853.63	1379244.63	12459.00
478084.97	1379244.75	13857.00
477859.88	1379244.88	13423.00
477859.88	1379244.88	6515.00
478091.22	1379244.88	9390.00
477866.13	1379245.00	14609.00
477872.38	1379245.13	14926.00
478097.47	1379245.13	8808.00
478103.72	1379245.25	9346.00
478109.97	1379245.38	13794.00
478109.97	1379245.38	9555.300
477884.88	1379245.50	12097.00
477909.88	1379246.25	4712.00
477959.84	1379247.50	5107.00
477959.84	1379247.50	10753.00
477966.09	1379247.75	11633.00
477972.34	1379247.88	11812.00
477978.59	1379248.13	12196.00
477984.84	1379248.25	134533.00
478009.84	1379248.88	7308.00

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(Continued)

Coordinates		
North	East	Reading (CPM)
478059.81	1379250.25	4717.00
478059.81	1379250.25	9050.00
478066.06	1379250.50	14286.00
478072.31	1379250.63	13857.00
478078.56	1379250.75	12196.00
478084.81	1379251.00	12025.00
478091.06	1379251.13	11549.00
478097.31	1379251.38	9464.00
478103.53	1379251.50	8560.00
478109.78	1379251.63	8506.00
478109.78	1379251.63	1673.00
477959.69	1379253.75	10170.00
477965.94	1379254.00	10453.00
477972.19	1379254.13	11075.00
477978.44	1379254.38	13334.00
477984.66	1379254.50	15176.00
478084.63	1379257.25	9928.00
478090.88	1379257.38	14320.00
478097.13	1379257.63	9804.00
478103.38	1379257.75	8979.00
478109.63	1379257.88	10102.00
477959.50	1379260.00	10205.00
477965.75	1379260.25	12001.00
477972.00	1379260.38	13514.00
477978.25	1379260.63	15385.00
477984.50	1379260.75	16484.00
478084.47	1379263.50	9570.00
478090.72	1379263.63	25211.00
478096.97	1379263.88	18938.00
478103.22	1379264.00	11300.00
478109.44	1379264.13	11407.00
477959.34	1379266.25	10102.00
477965.59	1379266.50	10310.00
477971.84	1379266.63	12965.00
477978.09	1379266.88	14229.00
477984.31	1379267.00	14507.00
478084.28	1379269.75	10959.00
478090.53	1379269.88	10338.00
478096.78	1379270.13	10222.00
478103.03	1379270.25	10729.00
478109.28	1379270.38	10564.00
477959.16	1379272.50	10470.00
477965.41	1379272.75	12995.00
477971.66	1379272.88	14706.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477977.91	1379273.00	40541.00
477984.16	1379273.25	18437.00
477984.16	1379273.25	20558.00
477990.41	1379273.38	14355.00
477996.66	1379273.63	11815.00
478002.91	1379273.75	13393.00
478009.16	1379273.88	10453.00
478015.41	1379274.13	12025.00
477108.81	1379274.25	2829.00
478021.66	1379274.25	12876.00
478027.88	1379274.38	13155.00
478034.13	1379274.63	15790.00
478040.38	1379274.75	13044.00
478046.63	1379275.00	14152.00
478052.88	1379275.13	13216.00
478059.13	1379275.25	12146.00
477158.78	1379275.63	4671.00
478084.13	1379276.00	16217.00
478090.38	1379276.13	13762.00
478096.63	1379276.25	12669.00
478102.88	1379276.50	10734.00
478190.13	1379276.63	11495.00
477959.00	1379278.75	9879.00
477965.25	1379279.00	11765.00
477971.50	1379279.13	15964.00
477977.75	1379279.25	15001.00
477984.00	1379279.50	11495.00
477990.22	1379279.63	12001.00
477308.72	1379279.75	6608.00
477996.47	1379279.88	11996.00
478002.72	1379280.00	10990.00
478008.97	1379280.13	10153.00
478015.22	1379280.38	11030.00
478021.47	1379280.50	11274.00
478027.72	1379280.63	10233.00
478033.97	1379280.88	10001.00
478040.22	1379281.00	8956.00
478046.47	1379281.25	11030.00
478052.72	1379281.38	9902.00
478058.97	1379281.50	11407.00
477958.81	1379285.00	10654.00
477965.06	1379285.25	11915.00
477971.31	1379285.38	11953.00
477977.56	1379285.50	13044.00

TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
477983.81	1379285.75	12459.00
477990.06	1379285.88	15049.00
477996.31	1379286.13	12766.00
478002.56	1379286.25	12097.00
478008.81	1379286.38	10939.00
478015.06	1379286.63	11268.00
478021.31	1379286.75	13987.00
478021.56	1379286.88	10583.00
478033.76	1379287.13	38462.00
478040.03	1379287.25	12167.00
478046.28	1379287.50	9616.00
478052.53	1379287.63	8586.00
478058.78	1379287.75	10998.00
477958.66	1379291.25	9967.00
477964.91	1379291.50	11460.00
477971.16	1379291.63	11153.00
477977.41	1379291.75	12629.00
477983.66	1379292.00	13242.00
477989.91	1379292.13	12397.00
477996.13	1379292.38	13453.00
478002.38	1379292.50	18127.00
478008.63	1379292.63	16449.00
478014.88	1379292.88	11561.00
478021.13	1379293.00	33909.00
478027.38	1379293.13	26906.00
477808.53	1379293.38	3617.00
478033.63	1379293.38	11674.00
478039.88	1379293.50	9430.00
478046.13	1379293.63	11071.00
478052.38	1379293.88	13334.00
478058.63	1379294.00	10170.00
477858.53	1379294.75	3392.00
477908.50	1379296.13	3620.00
477933.50	1379296.88	8876.00
477939.75	1379297.00	9773.00
477946.00	1379297.25	8597.00
477952.25	1379297.38	8120.00
477958.47	1379297.50	9773.00
477958.47	1379297.50	4393.00
477964.72	1379297.75	15001.00
477970.97	1379297.88	13453.00
477977.22	1379298.00	24001.00
477983.47	1379298.25	13101.00
477989.72	1379298.38	15709.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477995.97	1379298.63	14355.00
478008.47	1379298.88	7018.00
478008.47	1379298.88	38962.00
478014.72	1379299.13	11549.00
478020.97	1379299.25	26786.00
478027.22	1379299.38	32978.00
478033.47	1379299.63	20870.00
478039.69	1379299.75	10601.00
478045.94	1379299.88	10703.00
478052.19	1379300.13	9741.00
478058.44	1379300.25	5174.00
478058.44	1379300.25	9879.00
477933.31	1379303.13	8866.00
477939.56	1379303.25	7989.00
477945.81	1379303.50	7548.00
477952.06	1379303.63	8380.00
477958.31	1379303.75	13334.00
477964.56	1379304.00	10715.00
477970.81	1379304.13	11000.00
477977.06	1379304.25	12720.00
477983.31	1379304.50	13526.00
477989.56	1379304.63	15346.00
477995.81	1379304.88	16107.00
478002.03	1379305.00	14539.00
478008.28	1379305.13	17342.00
478014.53	1379305.38	14706.00
478020.78	1379305.50	12245.00
478027.03	1379105.63	21127.00
478033.28	1379305.88	50001.00
478039.53	1379306.00	8808.00
478045.78	1379306.13	10136.00
478052.03	1379306.38	10642.00
478058.28	1379306.50	9555.00
477933.16	1379309.38	7634.00
477939.41	1379309.50	9376.00
477945.66	1379309.75	8621.00
477951.91	1379309.88	8939.00
477958.13	1379310.00	10681.00
477964.38	1379310.25	14507.00
477970.63	1379310.38	11407.00
477976.88	1379310.50	17068.00
477986.13	1379310.75	11386.00
477989.38	1379310.88	12655.00
477995.63	1379311.00	14151.00

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TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
478001.88	1379311.25	10490.00
478008.13	1379311.38	15464.00
478014.38	1379311.63	11132.00
478020.63	1379311.75	12589.00
478026.88	1379311.88	11868.00
478033.13	1379312.13	11812.00
478039.38	1379312.25	10417.00
478045.59	1379312.38	10870.00
478051.84	1379312.63	11953.00
478058.09	1379312.75	9719.00
477932.97	1379315.63	8065.00
477939.22	1379315.75	8087.00
477945.47	1379316.00	7823.00
477951.72	1379316.13	8939.00
477957.97	1379316.25	13954.00
477964.22	1379316.50	11153.00
477970.47	1379316.63	13514.00
477976.72	1379316.75	15464.00
477982.97	1379317.00	15076.00
477989.22	1379317.13	30001.00
477995.47	1379317.25	18293.00
478001.69	1379317.50	14922.00
478007.94	1379317.63	17008.00
478014.19	1379317.88	15916.00
478020.44	1379318.00	16539.00
478026.69	1379318.13	15307.00
478032.94	1379318.38	12009.00
478039.19	1379318.50	10417.00
478045.44	1379318.63	10310.00
478051.69	1379318.88	9805.00
478057.94	1379319.00	8824.00
477932.81	1379321.88	8558.00
477939.06	1379322.00	8533.00
477945.31	1379322.25	10170.00
477957.81	1379322.50	14151.00
477964.03	1379322.75	10677.00
477970.28	1379322.88	18634.00
477976.53	1379323.00	22069.00
477982.78	1379323.25	18529.00
477898.03	1379323.38	19428.00
477995.28	1379323.50	28104.00
478001.53	1379323.75	30304.00
478007.78	1379323.88	16760.00
477107.44	1379324.25	2943.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
478020.28	1379324.25	18359.00
478026.53	1379324.38	22141.00
478032.78	1379324.63	9741.00
478039.03	1379324.75	8311.00
478045.25	1379324.88	10286.00
478051.50	1379325.13	10291.00
478057.75	1379325.25	9376.00
477157.41	1379325.63	4219.00
477932.63	1379328.13	9748.00
477938.88	1379328.25	16571.00
477257.38	1379328.38	4376.00
477945.13	1379328.38	11495.00
477951.38	1379328.63	12475.00
477957.63	1379328.75	16130.00
477963.88	1379329.00	13216.00
477970.13	1379329.13	15001.00
477976.38	1379329.25	12946.00
477982.63	1379329.50	10078.00
477988.88	1379329.63	11321.00
477307.34	1379329.75	4375.00
477995.13	1379329.75	22808.00
478001.38	1379330.00	12606.00
478007.59	1379330.13	11939.00
478013.84	1379330.38	10472.00
478020.09	1379330.50	10381.00
478026.34	1379330.63	10034.00
478032.59	1379330.88	11868.00
477357.34	1379331.13	3800.00
477932.47	1379334.38	9494.00
477938.72	1379334.50	9887.00
477944.97	1379334.63	19878.00
477951.22	1379334.88	14564.00
477957.47	1379335.00	15545.00
477507.28	1379335.25	4857.00
477963.72	1379335.25	11812.00
477969.94	1379335.38	9879.00
477982.44	1379335.75	12245.00
477988.69	1379335.88	11153.00
477994.94	1379336.00	11243.00
478001.19	1379336.25	9147.00
478007.44	1379336.38	10870.00
477557.25	1379336.63	5232.00
478013.69	1379336.63	10123.00
478019.94	1379336.75	10490.00

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TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
478026.19	1379336.88	12321.00
478032.44	1379337.13	14469.00
477932.28	1379340.63	9431.00
477938.53	1379340.75	10734.00
477944.78	1379340.88	13678.00
477951.03	1379341.13	17493.00
477957.28	1379341.25	13343.00
477963.53	1379341.50	41667.00
477969.78	1379341.63	10205.00
477976.03	1379341.75	12001.00
477757.19	1379342.00	3884.00
477982.28	1379342.00	11321.00
477988.53	1379342.13	10910.00
477994.78	1379342.25	13954.00
478001.03	1379342.50	10494.00
478007.28	1379342.63	9555.00
478013.50	1379342.75	11517.00
478019.75	1379343.00	12606.00
478026.00	1379343.13	14286.00
477807.16	1379343.38	5146.00
478032.25	1379343.38	23347.00
477857.16	1379344.75	3920.00
477907.13	1379346.13	4812.00
477932.13	1379346.88	9647.00
477938.38	1379347.00	10381.00
477944.63	1379347.13	12162.00
477950.88	1379347.38	12051.00
477957.13	1379347.50	11569.00
477957.13	1379347.50	19737.00
477963.38	1379347.75	19119.00
477969.63	1379347.88	17143.00
477975.84	1379348.00	18099.00
477982.09	1379348.25	12245.00
477988.34	1379348.38	11468.00
477994.59	1379348.50	17868.00
478000.84	1379348.75	10102.00
478007.09	1379348.88	10792.00
478007.09	1379348.88	5482.00
478013.34	1379349.00	12553.00
478019.59	1379349.25	12171.00
478025.84	1379349.38	12073.00
478032.09	1379349.63	13575.00
478057.06	1379350.25	5564.00
478082.06	1379351.00	10409.00

TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
478088.31	1379351.13	15076.00
478094.56	1379351.25	15076.00
478100.81	1379351.50	8646.00
478107.06	1379351.63	3442.00
478107.06	1379351.63	6616.00
477981.94	1379354.50	12669.00
477988.19	1379354.63	18293.00
477994.44	1379354.75	13393.00
478000.69	1379355.00	14286.00
478006.94	1379355.13	17242.00
478081.91	1379357.25	11798.00
478088.16	1379357.38	16449.00
478094.41	1379357.50	12459.00
478100.63	1379357.75	14399.00
478106.88	1379357.88	7043.00
477981.75	1379360.75	12350.00
477988.00	1379360.88	15307.00
477994.25	1379631.00	12998.00
478000.50	1379361.25	12462.00
478006.75	1379361.38	9298.00
478081.72	1379363.38	10527.00
478087.97	1379363.63	24001.00
478094.22	1379363.75	10345.00
478100.47	1379364.00	9601.00
478106.72	1379364.13	6473.00
477981.59	1379367.00	9346.00
477987.84	1379367.13	18418.00
477994.09	1379367.25	16217.00
478000.34	1379367.50	22399.00
478006.59	1379367.63	17136.00
478081.56	1379369.63	10601.00
478087.81	1379369.88	11517.00
478094.06	1379370.00	10292.00
478100.31	1379370.25	9199.00
478106.53	1379370.38	6616.00
477981.41	1379373.25	11036.00
477987.66	1379373.38	9355.00
477993.91	1379373.50	14564.00
478000.16	1379373.75	20271.00
478006.41	1379373.88	16875.00
477106.06	1379374.25	3428.00
478031.41	1379374.63	9688.00
478037.66	1379374.75	10345.00
478043.91	1379374.88	10473.00

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FEMP-OU02-6 FINAL
January 21, 1995TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
478050.16	1379375.13	13954.00
478056.41	1379375.25	14425.00
477156.03	1379375.63	4272.50
478081.38	1379375.88	10910.00
478087.63	1379376.13	14743.00
478093.88	1379376.25	10310.00
478100.13	1379376.50	8011.00
478106.38	1379376.63	5587.00
477206.03	1379377.00	4764.50
477256.00	1379378.38	4416.50
477306.00	1379379.75	4904.00
478031.22	1379380.75	10129.00
478037.47	1379381.00	11219.00
477355.97	1379381.13	5647.00
478043.72	1379381.13	8722.00
478049.97	1379381.38	9879.00
478056.22	1379381.50	11638.00
478081.22	1379382.13	11132.00
478087.47	1379382.38	24897.00
477405.94	1379382.50	3724.00
478093.72	1379382.50	11473.00
478099.97	1379382.75	7491.00
478106.19	1379382.88	6466.00
477455.94	1379383.88	2937.00
477505.91	1379385.25	3660.00
477555.91	1379386.50	4499.00
478031.06	1379387.00	9494.00
478037.31	1379387.25	9773.00
478043.56	1379387.38	8824.00
478049.81	1379387.63	8042.00
478056.06	1379387.75	10310.00
477605.88	1379387.88	3632.00
478081.03	1379388.36	12969.00
478087.28	1379388.63	22557.00
478093.53	1379388.75	7482.00
478099.78	1379389.00	7539.00
478106.03	1379389.13	5786.00
477655.84	1379389.25	5720.00
477705.84	1379390.63	4292.00
477755.81	1379392.00	4006.00
478030.88	1379393.25	11364.00
477805.81	1379393.38	4442.00
478037.13	1379393.50	9804.00
478043.38	1379393.63	9741.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
478049.63	1379393.88	8194.00
478055.88	1379394.00	10677.00
478080.88	1379394.63	15707.00
477855.78	1379394.75	5210.00
478087.13	1379394.88	16217.00
478093.38	1379395.00	9984.00
478099.63	1379395.13	6742.00
478105.88	1379395.38	5883.00
477905.75	1379396.13	4216.00
477955.75	1379397.50	3694.00
477980.75	1379398.13	8597.00
477987.00	1379398.38	5498.00
477993.22	1379398.50	5883.00
477999.47	1379398.75	7793.00
478005.72	1379398.88	5752.00
478005.72	1379398.88	10753.00
478030.72	1379399.50	8451.00
478036.97	1379399.75	9827.00
478043.22	1379399.88	10870.00
478049.47	1379400.13	8001.00
478055.72	1379400.25	4558.00
478055.72	1379400.25	10338.00
478061.97	1379400.38	11651.00
478068.22	1379400.63	11835.00
478074.44	1379400.75	11742.00
478080.69	1379400.88	17700.00
478086.94	1379401.13	25975.00
478093.19	1379401.25	9088.00
478099.44	1379401.38	7160.00
478105.69	1379401.63	7002.00
477980.56	1379404.38	7693.00
477986.81	1397404.63	5182.00
477993.06	1379404.75	6953.00
477999.31	1379405.00	10295.00
478005.56	1379405.13	14635.00
478030.56	1379405.75	9804.00
478036.78	1379406.00	11765.00
477355.28	1379406.13	10417.00
478043.03	1379406.13	9208.00
477361.53	1379406.25	12097.00
477367.78	1379406.38	8487.00
478055.53	1379406.50	10734.00
477374.03	1379406.63	7576.00
478061.78	1379406.63	11451.00

TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
477380.28	1379406.75	8634.00
478068.03	1379406.88	11742.00
478074.28	1379407.00	12423.00
478080.53	1379407.13	82760.00
478086.78	1379407.38	32269.00
477980.41	1379410.63	7634.00
477986.66	1379410.88	7239.00
477992.88	1379411.00	16854.00
477999.13	1379411.25	18182.00
478005.38	1379411.38	12487.00
478030.38	1379412.00	11868.00
478036.63	1379412.25	18073.00
477355.13	1379412.38	9524.00
478042.88	1379412.38	9400.00
477361.38	1379412.50	9161.00
478049.13	1379412.50	10136.00
477367.63	1379412.63	8379.00
478055.38	1379412.75	11174.00
477373.64	1379412.88	10381.00
478061.63	1379412.88	11091.00
477380.09	1379413.00	12171.00
478067.88	1379413.13	13168.00
478074.13	1379413.25	16261.00
478080.34	1379413.38	40910.00
478086.59	1379413.63	19231.00
477730.16	1379416.38	8899.00
477736.41	1379416.50	10453.00
477742.66	1379416.63	16714.00
477748.88	1379416.88	11407.00
477980.22	1379416.88	9494.00
477755.13	1379417.00	8380.00
477986.47	1379417.13	11283.00
477992.72	1379417.25	12944.00
477998.97	1379417.50	18751.00
478005.22	1379417.63	16778.00
478030.22	1379418.25	13606.00
477805.13	1379418.38	9133.00
477811.38	1379418.50	9203.00
478036.44	1379418.50	19934.00
477354.94	1379418.63	9616.00
478042.69	1379418.63	12245.00
477361.19	1379418.75	8772.00
477817.63	1379418.75	8811.00
478048.94	1379418.75	12146.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477367.44	1379418.88	8186.00
477823.88	1379418.88	12025.00
478055.19	1379419.00	11010.00
477373.69	1379419.13	12245.00
477830.09	1379419.13	11321.00
478061.44	1379419.13	11236.00
477379.94	1379419.25	9984.00
478067.69	1379419.38	15464.00
478073.94	1379419.50	16001.00
478080.19	1379419.63	45802.00
477729.97	1379422.63	8043.00
477736.22	1379422.75	9464.00
477742.47	1379422.88	9984.00
477748.72	1379423.13	14899.00
477980.06	1379423.13	8824.00
477754.97	1379423.25	8916.00
477986.31	1379423.38	28347.00
477992.56	1379423.50	66520.00
477998.78	1379423.75	10601.00
478005.03	1379423.88	10274.00
478030.03	1379424.50	9570.00
477804.94	1379424.63	9585.00
477811.19	1379424.75	10490.00
478036.28	1379424.75	11977.00
477354.78	1379424.88	8634.00
478042.53	1379424.88	11638.00
477361.03	1379425.00	9601.00
477817.44	1379425.00	13304.00
478048.78	1379425.00	11321.00
477367.28	1379425.13	9837.00
477823.69	1379425.13	11268.00
478055.03	1379425.25	11071.00
477373.53	1379425.38	7742.00
477829.94	1379425.38	16173.00
478061.28	1379425.38	11939.00
477379.75	1379425.50	8451.00
478067.53	1379425.63	11977.00
478073.78	1379425.75	18248.00
478080.00	1379425.88	13514.00
477729.81	1379428.88	13545.00
477736.06	1379429.00	9091.00
477742.31	1379429.13	8619.00
477746.56	1379429.38	30001.00
477979.88	1379429.38	15239.00

TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
477754.78	1379429.50	10870.00
477986.13	1379429.63	50858.00
477304.63	1379429.75	4635.00
477992.38	1379429.75	8572.00
477998.63	1379429.88	7916.00
478004.88	1379430.13	8427.00
478029.88	1379430.75	8623.00
477804.78	1379430.88	10345.00
477811.03	1379431.00	14320.00
478036.13	1379431.00	13334.00
477354.59	1379431.13	3920.00
477354.59	1379431.13	8120.00
478042.34	1379431.13	42868.00
477360.84	1379431.25	8380.00
477817.28	1379431.25	10527.00
478048.59	1379431.25	13770.00
477367.09	1379431.38	9274.00
477823.53	1379431.38	9555.00
478054.84	1379431.50	12909.00
477373.34	1379431.63	9570.00
477829.78	1379431.63	8721.00
478061.09	1379431.63	10792.00
477379.59	1379431.75	8523.00
478067.34	1379431.88	13304.00
478073.59	1379432.00	25317.00
478079.84	1379432.13	11696.00
477404.59	1379432.38	4992.00
477404.59	1379432.38	10001.00
477410.84	1379432.63	8427.00
477417.09	1379432.75	9246.00
477423.31	1379433.00	9951.00
477429.56	1379433.13	9246.00
477454.56	1379433.75	4114.00
477504.53	1379435.13	3231.00
477729.63	1379435.13	9820.00
477735.88	1379435.25	9837.00
477742.13	1379435.38	11729.00
477748.38	1379435.63	8621.00
477979.72	1379435.63	7417.00
477754.63	1379435.75	8811.00
477985.97	1379435.88	8558.00
477992.22	1379436.00	8942.00
477998.47	1379436.13	8220.00
478004.69	1379436.38	8153.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
478029.69	1379437.00	8907.00
477804.59	1379437.13	11091.00
477810.84	1379437.25	9967.00
478035.94	1379437.25	17342.00
478042.19	1379437.38	15239.00
477817.09	1379437.50	9088.00
478048.44	1379437.50	15284.00
477823.34	1379437.63	9161.00
478054.69	1379437.75	12606.00
477604.50	1379437.88	3356.00
477829.59	1379437.88	7634.00
478060.94	1379437.88	13794.00
478067.19	1379438.13	11386.00
478073.44	1379438.25	12858.00
478079.69	1379438.38	10890.00
477404.41	1379438.63	11868.00
477410.66	1379438.88	17965.00
477416.91	1379439.00	9741.00
477423.16	1379439.25	9662.00
477654.50	1379439.25	4164.00
477429.41	1379439.38	12904.00
477679.47	1379440.00	10310.00
477685.72	1379440.13	17658.00
477691.97	1379440.25	18938.00
477698.22	1379440.50	11868.00
477704.47	1379440.63	13899.00
477704.47	1379440.63	5652.00
477710.72	1379440.88	11939.00
477716.97	1379441.00	13546.00
477723.22	1379441.13	9346.00
477729.47	1379441.38	12073.00
477735.72	1379441.50	8584.00
477741.97	1379441.63	11561.00
477748.22	1379441.88	8669.00
477979.53	1379441.88	6652.00
477754.44	1379442.00	8011.00
477754.44	1379442.00	3857.00
477985.78	1379442.13	7399.00
477992.03	1379442.25	7992.00
477998.28	1379442.38	9647.00
478004.53	1379442.63	7501.00
478029.53	1379443.25	14029.00
477804.44	1379443.38	9376.00
477804.44	1379443.38	4560.00

TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
477810.69	1379443.50	8721.00
478035.78	1379443.50	25426.00
478042.03	1379443.50	12254.00
478048.25	1379443.75	12001.00
477823.19	1379443.88	8511.00
478054.50	1379444.00	11407.00
477829.44	1379444.13	8621.00
478060.75	1379444.13	16394.00
478067.00	1379444.38	24794.00
478073.25	1379444.50	83800.00
477854.41	1379444.50	3917.00
477404.25	1379444.88	12821.00
477410.50	1379445.13	14286.00
477416.75	1379445.25	10338.00
477423.00	1379445.50	9105.00
477429.22	1379445.63	12321.00
477904.41	1379446.13	4339.00
477679.31	1379446.25	9494.00
477685.56	1379446.38	13216.00
477691.81	1379446.50	10753.00
477698.06	1379446.75	22223.00
477929.38	1379446.75	8147.00
477704.31	1379446.88	10409.00
477710.56	1379447.00	12821.00
477935.63	1379447.00	8065.00
477941.88	1379447.13	8404.00
477716.78	1379447.25	11517.00
477948.13	1379447.25	7968.00
477723.03	1379447.38	11071.00
477954.38	1379447.50	5687.00
477954.38	1379447.50	11285.00
477729.28	1379447.63	12296.00
477960.63	1379447.63	18759.00
477735.53	1379447.75	11321.00
477741.78	1379447.88	12122.00
477966.88	1379447.88	15464.00
477973.13	1379448.00	7732.00
477748.03	1379448.13	8334.00
477979.38	1379448.13	8175.00
477754.28	1379448.25	8942.00
477985.63	1379448.38	7968.00
477991.88	1379448.50	7409.00
477998.13	1379448.63	9193.00
478004.36	1379448.88	10696.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
478004.38	1379448.88	4769.00
478004.38	1379448.88	9945.00
478010.59	1379449.00	9688.00
478016.84	1379449.25	9105.00
478023.09	1379449.38	10939.00
478029.34	1379449.50	15707.00
478035.59	1379449.75	9616.00
478041.84	1379449.88	14229.00
478048.09	1379450.00	11765.00
478054.34	1379450.25	11300.00
478054.34	1379450.25	5323.00
478060.59	1379450.38	10979.00
478066.84	1379450.50	15346.00
478073.09	1379450.75	24001.00
477410.31	1379451.38	14815.00
477416.56	1379451.50	15759.00
478104.31	1379451.63	5137.00
477422.81	1379451.75	8380.00
477429.06	1379451.88	9464.00
477679.13	1379452.50	9317.00
477685.38	1379452.63	8942.00
477691.63	1379452.75	12321.00
477697.88	1379453.00	14609.00
477929.22	1379453.00	5273.00
477704.13	1379453.13	15190.00
477710.38	1379453.25	10338.00
477935.47	1379453.25	8175.00
477941.72	1379453.38	7927.00
477716.63	1379453.50	7895.00
477947.97	1379453.50	6897.00
477722.88	1379453.63	8011.00
477954.22	1379453.75	15707.00
477729.13	1379453.88	12196.00
477960.47	1379453.88	11927.00
477735.38	1379454.00	6363.00
477741.63	1379454.13	10601.00
477966.69	1379454.13	10602.00
477972.94	1379454.25	9037.00
477747.88	1379454.38	7828.00
477979.19	1379454.38	6961.00
477754.13	1379454.50	9050.00
478004.13	1379455.13	10001.00
478010.44	1379455.25	12632.00
478016.69	1379455.50	8824.00

TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
478022.94	1379455.63	11236.00
478029.19	1379455.75	17572.00
478035.44	1379456.00	27788.00
478041.69	1379456.13	22399.00
478047.94	1379456.25	11451.00
478054.16	1379456.50	11763.00
478060.41	1379456.63	18913.00
477378.91	1379456.75	9129.00
478066.66	1379456.75	23530.00
477385.16	1379456.88	8824.00
478072.91	1379457.00	9922.00
477391.41	1379457.13	8808.00
477397.66	1379457.25	16667.00
477403.91	1379457.38	26906.00
477410.16	1379457.68	13016.00
477416.41	1379457.75	6961.00
477422.66	1379458.00	9217.00
477428.91	1379458.13	10939.00
477678.97	1379458.75	8404.00
477685.22	1379458.88	8001.00
477691.47	1379459.00	7624.00
477697.72	1379459.25	8276.00
477929.03	1379459.25	7069.00
477703.97	1379459.38	15874.00
477710.22	1379459.50	21212.00
477935.28	1379459.50	7783.00
477941.53	1379459.63	7160.00
477716.47	1379459.75	8747.00
477947.78	1379459.75	7867.00
477722.69	1379459.88	10136.00
477954.03	1379460.00	17752.00
477728.94	1379460.13	14852.00
477960.28	1379460.13	14635.00
477735.19	1379460.25	17143.00
477741.44	1379460.38	11030.00
477966.53	1379460.38	9585.00
477972.78	1379460.50	10381.00
477747.69	1379460.63	7864.00
477979.03	1379460.63	7813.00
477753.94	1379460.75	8811.00
478004.03	1379461.38	9662.00
478010.25	1379461.50	8254.00
478016.50	1379461.75	9231.00
478022.75	1379461.88	9494.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
478029.00	1379462.00	13514.00
478035.25	1379462.25	12196.00
478041.50	1379462.38	11300.00
478047.75	1379462.50	12688.00
478054.00	1379462.75	13730.00
478060.25	1379462.88	23347.00
477378.75	1379463.00	8108.00
478066.50	1379463.00	15152.00
477385.00	1379463.13	9303.00
478072.75	1379463.25	9879.00
477391.22	1379463.38	9555.00
477397.47	1379463.50	14609.00
477403.72	1379463.63	17752.00
477409.97	1379463.88	9885.00
477416.22	1379464.00	7491.00
477422.47	1379464.13	8449.00
477428.72	1379464.38	9647.00
477678.81	1379465.00	8621.00
477685.03	1379465.13	7823.00
477691.28	1379465.25	8120.00
477697.53	1379465.50	9346.00
477928.88	1379465.50	7576.00
477703.78	1379465.63	23905.00
477710.03	1379465.75	30938.00
477935.13	1379465.75	7372.00
477941.38	1379465.88	15125.00
477716.28	1379466.00	8684.00
477947.63	1379466.00	8558.00
477722.53	1379466.13	8276.00
477953.88	1379466.25	9616.00
477728.78	1379466.38	10001.00
477960.13	1379466.38	25249.00
477735.03	1379466.50	10292.00
477741.28	1379466.63	9434.00
477966.38	1379466.63	11953.00
477972.59	1379466.75	7501.00
477747.53	1379466.88	9420.00
477978.84	1379466.88	7093.00
477753.78	1379467.00	8231.00
478003.84	1379467.63	7854.00
478010.09	1379467.75	9570.00
478016.34	1379467.88	10527.00
478022.59	1379468.13	11696.00
478028.84	1379468.25	16484.00

TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
478035.09	1379468.50	11853.00
478041.34	1379468.63	12025.00
478047.59	1379468.75	11812.00
478053.81	1379469.00	12122.00
478060.06	1379469.13	20135.00
477378.56	1379469.25	9773.00
478066.31	1379469.25	11939.00
477384.81	1379469.38	9694.00
477391.06	1379469.63	9934.00
477397.31	1379469.75	15666.00
477403.56	1379469.88	9616.00
477409.81	1379470.13	10001.00
477416.06	1379470.25	8619.00
477422.31	1379470.38	9260.00
477428.56	1379470.63	9773.00
477903.72	1379471.13	13334.00
477678.63	1379471.25	9231.00
477909.97	1379471.25	22472.00
477684.88	1379471.38	8357.00
477691.13	1379471.50	8916.00
477916.22	1379471.50	17342.00
477922.47	1379471.63	8824.00
477697.38	1379471.75	7132.00
477703.63	1379471.88	9023.00
477934.94	1379472.00	8108.00
477941.19	1379472.13	16760.00
477947.44	1379472.25	14789.00
477953.69	1379472.50	15249.00
477959.94	1379472.63	27273.00
477966.19	1379472.88	16331.00
477972.44	1379473.00	14926.00
477978.69	1379473.13	8558.00
477984.94	1379473.38	7160.00
477991.19	1379473.50	6994.00
477997.44	1379473.63	9350.00
478003.69	1379473.88	6568.00
478009.94	1379474.00	11132.00
478016.16	1379474.13	14926.00
477103.34	1379474.25	4432.00
478022.41	1379474.38	33718.00
478028.66	1379474.50	25211.00
478034.91	1379474.75	13899.00
478041.16	1379474.88	12543.00
478047.41	1379475.00	11937.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
478053.66	1379475.05	15385.00
478059.91	1379475.38	21989.00
477378.41	1379475.50	9405.00
478066.16	1379475.50	10170.00
477153.31	1379475.63	4500.00
477384.66	1379475.63	9585.00
477390.91	1379475.88	9298.00
477397.13	1379476.00	9798.00
477403.38	1379476.13	9647.00
477409.63	1379476.38	10187.00
477415.88	1379476.50	9555.00
477422.13	1379476.63	10773.00
477428.38	1379476.88	9549.00
477203.28	1379477.00	5154.00
477903.53	1379477.38	13637.00
477678.47	1379477.50	9928.00
477909.78	1379477.50	18127.00
477228.28	1379477.63	8451.00
477684.69	1379477.63	9725.00
477234.53	1379477.75	8760.00
477690.94	1379477.75	9434.00
477916.03	1379477.75	23716.00
477922.28	1379477.88	29704.00
477240.78	1379478.00	8824.00
477697.19	1379478.00	8487.00
477928.53	1379478.00	16305.00
477247.03	1379478.13	7875.00
477703.44	1379478.13	8646.00
477934.78	1379478.25	17868.00
477253.28	1379478.38	8231.00
477253.28	1379478.38	4392.00
477941.03	1379478.38	21439.00
477947.28	1379478.50	58824.00
477953.53	1379478.75	34884.00
477959.78	1379478.88	32269.00
477966.03	1379479.13	29704.00
477972.28	1378479.25	49181.00
477978.50	1379479.38	13954.00
477303.25	1379479.63	3941.00
477984.75	1379479.63	7557.00
477991.00	1379479.75	8168.00
477997.25	1379479.88	8671.00
478003.50	1379480.13	9129.00
478009.75	1379480.25	14085.00

TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
477328.25	1379480.38	10939.00
478016.00	1379480.38	24097.00
477334.50	1379480.50	12998.00
478022.25	1379480.63	24194.00
477340.75	1379480.75	9820.00
478028.50	1379480.75	20135.00
477347.00	1379480.88	9405.00
477353.25	1379481.00	9798.00
477353.25	1379481.00	4871.00
478034.75	1379481.00	12097.00
478041.00	1379481.13	8653.00
477359.47	1379481.25	9133.00
478047.25	1379481.25	12245.00
477365.72	1379481.38	11174.00
477371.97	1379481.50	9519.00
478053.50	1379481.50	20906.00
478059.72	1379481.63	31414.00
477378.22	1379481.75	9203.00
478065.97	1379481.75	10085.00
477384.47	1379481.88	9376.00
477390.72	1379482.13	8996.00
477396.97	1379482.25	9928.00
477403.22	1379482.38	4624.00
477403.22	1379482.38	9376.00
477409.47	1379482.63	8785.00
477415.72	1379482.75	9105.00
477421.97	1379482.88	9879.00
477428.22	1379483.13	10102.00
477903.38	1379483.63	7529.00
477453.19	1379483.75	5296.00
477678.28	1379483.75	9741.00
477909.63	1379483.75	8998.00
477234.34	1379484.00	9361.00
477690.78	1379484.00	8824.00
477915.88	1379484.00	23623.00
477922.13	1379484.13	22557.00
477240.59	1379484.25	9303.00
477697.03	1379484.25	8560.00
477928.38	1379484.25	31414.00
477246.84	1379484.38	8254.00
477703.28	1379484.38	8747.00
477253.09	1379484.50	8876.00
477478.19	1379484.50	8899.00
477934.59	1379484.50	23716.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477484.44	1379484.63	10034.00
477940.84	1379484.63	14926.00
477490.69	1379484.75	10773.00
477947.09	1379484.75	28170.00
477496.94	1379485.00	10345.00
477953.34	1379485.00	52872.00
477503.19	1379485.13	5132.00
477503.19	1379485.13	9879.00
477959.59	1379485.13	165701.00
477965.84	1379485.25	111110.00
477972.09	1379485.50	68030.00
477978.34	1379485.63	42868.00
477528.16	1379485.88	10564.00
477984.59	1379485.88	17752.00
477534.41	1379486.00	8760.00
477990.84	1379486.00	14574.00
477540.66	1379486.13	9064.00
477997.09	1379486.13	9974.00
477546.91	1379486.38	9885.00
478003.34	1379486.38	13545.00
477553.16	1379486.50	5550.00
477553.16	1379486.50	17193.00
478009.59	1379486.50	19481.00
477328.06	1379486.63	9647.00
478015.84	1379486.63	24897.00
477334.31	1379486.75	8108.00
478022.06	1379486.88	20145.00
477340.56	1379487.00	9147.00
478028.31	1379487.00	21353.00
477346.81	1379487.13	9346.00
477353.06	1379487.25	9967.00
478034.56	1379487.25	19737.00
478040.81	1379487.38	10715.00
477359.31	1379487.50	8584.00
478047.06	1379487.50	12821.00
477365.56	1379487.63	13545.00
477371.81	1379487.75	10649.00
478053.31	1379487.75	23905.00
477603.16	1379487.88	4375.00
478059.56	1379487.88	12821.00
477378.06	1379488.00	8956.00
477653.13	1379489.25	4409.00
477903.19	1379489.88	7875.00
477678.13	1379490.00	10129.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477909.44	1379490.00	8120.00
477227.94	1379490.13	8087.00
477684.38	1379490.13	10222.00
477234.19	1379490.25	11268.00
477690.59	1379490.25	7937.00
477915.69	1379490.25	19673.00
477921.94	1379490.38	9757.00
477240.44	1379490.50	9934.00
477696.84	1379490.50	9616.00
477928.19	1379490.50	13423.00
477246.69	1379490.63	8463.00
477703.09	1379490.63	8939.00
477703.09	1379490.63	4344.00
477252.94	1379490.75	7875.00
477478.03	1379490.75	9260.00
477934.44	1379490.75	27273.00
477484.25	1379490.88	9757.00
477940.69	1379490.88	12501.00
477490.50	1379491.00	10527.00
477946.75	1379491.25	11386.00
477496.94	1379491.00	28437.00
477953.19	1379491.25	20001.00
477503.00	1379491.38	12245.00
477959.44	1379491.38	155260.00
477965.69	1379491.50	35715.00
477971.94	1379491.75	22901.00
477978.16	1379491.88	60480.00
477753.09	1379492.00	4321.00
477528.00	1379492.13	9585.00
477984.41	1379492.13	10684.00
477534.25	1379492.25	12171.00
477990.66	1379492.25	10527.00
477540.50	1379492.38	12669.00
477996.91	1379492.38	21740.00
477546.75	1379492.63	9519.00
478003.16	1379492.63	16667.00
477553.00	1379492.75	9274.00
478009.41	1379492.75	16484.00
477327.91	1379492.88	7605.00
478015.66	1379492.88	21908.00
477334.16	1379493.00	8979.00
476021.91	1379493.13	20488.00
477340.41	1379493.25	9489.00
478028.16	1379493.25	144242.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477346.66	1379493.38	10001.00
477803.06	1379493.38	4094.00
477803.06	1379493.38	4094.00
477352.91	1379493.50	9616.00
478034.41	1379493.50	9647.00
478040.66	1379493.63	11364.00
477359.13	1379493.75	11473.00
478046.91	1379493.75	11977.00
477365.38	1379493.88	13974.00
477371.63	1379494.00	18529.00
478053.16	1379494.00	31915.00
478059.41	1379494.13	10773.00
477377.88	1379494.25	10870.00
477853.06	1379494.75	3548.00
477903.03	1379496.13	8011.00
477903.03	1379496.13	3917.00
477909.28	1379496.25	7491.00
477227.78	1379496.38	16621.00
477234.03	1379496.50	56075.00
477915.53	1379496.50	8033.00
477921.78	1379496.63	14743.00
477240.25	1379496.75	12196.00
477928.03	1379496.75	21053.00
477246.50	1379496.88	9934.00
477252.75	1379497.00	8276.00
477477.84	1379497.00	11112.00
477934.28	1379497.00	9798.00
477484.09	1379497.13	10870.00
477940.50	1379497.13	37048.00
477490.34	1379497.25	11868.00
477946.75	1379497.25	25863.00
477496.59	1379497.50	10490.00
477953.00	1379497.50	14563.00
477953.00	1379497.50	27523.00
477502.84	1379497.63	11549.00
477959.25	1379497.63	24391.00
477965.50	1379497.75	106980.00
477971.75	1379498.00	26829.00
477978.00	1379498.13	9879.00
477527.81	1379498.38	9647.00
477534.06	1379498.50	11638.00
477990.50	1379498.50	8043.00
477540.31	1379498.63	11765.00
477996.75	1379498.63	11321.00

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January 21, 1995TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
477546.56	1379498.88	10129.00
478003.00	1379498.88	30613.00
478003.00	1379498.88	16922.00
477552.81	1379499.00	9725.00
478009.25	1379499.00	25317.00
477327.72	1379499.13	9346.00
478015.50	1379499.13	25001.00
477333.97	1379499.25	9837.00
478021.75	1379499.38	23077.00
477340.22	1379499.50	10831.00
478027.97	1379499.50	11617.00
477346.47	1379499.63	13246.00
477352.72	1379499.75	12296.00
478034.22	1379499.75	10649.00
478040.47	1379499.88	12501.00
477358.97	1379500.00	12876.00
478046.72	1379500.00	14493.00
477365.22	1379500.13	21439.00
477371.47	1379500.25	10153.00
478052.97	1379500.25	8025.00
478052.97	1379500.25	16484.00
478059.22	1379500.38	9346.00
477377.72	1379500.50	10527.00
477902.84	1379502.38	8785.00
477909.09	1379502.50	7615.00
477227.59	1379502.63	12686.00
477915.34	1379502.63	12876.00
477233.84	1379502.75	13709.00
477921.59	1379502.88	6905.00
477240.09	1379503.00	12632.00
477927.84	1379503.00	16667.00
477246.34	1379503.13	9934.00
477252.59	1379503.25	9741.00
477477.69	1379503.25	12245.00
477934.09	1379503.25	33520.00
477483.94	1379503.38	13246.00
477940.34	1379503.38	30304.00
477490.16	1379503.50	14320.00
477946.59	1379503.50	21583.00
477496.41	1379503.75	9199.00
477952.84	1379503.75	25642.00
477502.66	1379503.88	11953.00
477959.09	1379503.88	27273.00
477965.34	1379504.00	134730.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477971.59	1379504.25	46154.00
477977.84	1379504.38	13227.00
477527.66	1379504.63	9091.00
477533.91	1379504.75	14493.00
477540.16	1379504.88	10715.00
477546.41	1379505.13	10527.00
477552.66	1379505.25	11153.00
477327.56	1379505.38	10363.00
477333.81	1379505.50	23716.00
477340.06	1379505.75	19428.00
478027.81	1379505.75	17342.00
477346.31	1379505.88	24490.00
478034.06	1379505.88	32619.00
477352.56	1379506.00	27523.00
478040.31	1379506.13	15944.00
477358.81	1379506.25	14852.00
478046.56	1379506.25	11797.00
477365.03	1379506.38	14399.00
477371.28	1379506.50	16714.00
478052.81	1379506.50	11238.00
477377.53	1379506.75	7586.00
477902.69	1379508.63	7463.00
477908.94	1379508.75	7291.00
477915.19	1379508.88	5820.00
477921.44	1379509.13	8119.00
477927.69	1379509.25	9133.00
477477.50	1379509.50	13334.00
477933.94	1379509.50	8220.00
477483.75	1379509.63	11939.00
477940.19	1379509.63	40279.00
477490.00	1379509.75	11977.00
477946.41	1379509.75	30613.00
477496.25	1379510.00	6734.00
477952.66	1379510.00	24794.00
477502.50	1379510.13	10979.00
477958.91	1379510.13	18634.00
477965.16	1379510.25	58824.00
477508.75	1379510.38	9088.00
477515.00	1379510.50	9037.00
477971.41	1379510.50	69130.00
477521.25	1379510.63	8646.00
477977.66	1379510.63	9804.00
477527.50	1379510.88	8621.00
477533.72	1379511.00	8231.00

TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
477539.97	1379511.13	11561.00
477546.22	1379511.38	9434.00
477552.47	1379511.50	10668.00
477327.38	1379511.63	11439.00
477333.63	1379511.75	12475.00
477339.88	1379512.00	14789.00
478027.63	1379512.00	12573.00
477346.13	1379512.13	11321.00
478033.88	1379512.13	11321.00
477352.38	1379512.25	10527.00
478040.13	1379512.38	10647.00
477358.63	1379512.50	13637.00
478046.38	1379512.50	11638.00
477364.88	1379512.63	11300.00
477371.13	1379512.75	13423.00
478052.63	1379512.75	36810.00
477377.38	1379513.00	13016.00
477902.53	1379514.88	6518.00
477908.75	1379515.00	6773.00
477915.00	1379515.13	7248.00
477921.25	1379515.38	7906.00
477927.50	1379515.50	8584.00
477477.34	1379515.75	10381.00
477933.75	1379515.75	8427.00
477483.59	1379515.88	10870.00
477940.00	1379515.88	9231.00
477489.84	1379516.00	9837.00
477946.25	1379516.00	25642.00
477496.06	1379516.25	10334.00
477952.50	1379516.25	21372.00
477502.31	1379516.38	10274.00
477958.75	1379516.38	19878.00
477508.56	1379516.50	8619.00
477965.00	1379516.50	21389.00
477514.81	1379516.75	8850.00
477971.25	1379516.75	25651.00
477521.06	1379516.88	9570.00
477977.50	1379516.88	26559.00
477752.41	1379517.00	8956.00
477527.31	1379517.13	8597.00
477758.66	1379517.13	9105.00
477533.56	1379517.25	8345.00
477539.81	1379517.38	7990.00
477764.91	1379517.38	8646.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477771.16	1379517.50	8487.00
477546.06	1379517.63	9217.00
477777.41	1379517.63	10490.00
477552.31	1379517.75	9464.00
477327.22	1379517.88	11289.00
477333.47	1379518.00	11638.00
477339.72	1379518.25	11977.00
478027.47	1379518.25	13016.00
477345.97	1379518.38	11882.00
478033.72	1379518.38	11868.00
477352.22	1379518.50	9570.00
478039.97	1379518.63	28048.00
477358.47	1379518.75	10153.00
478046.22	1379518.75	22901.00
477364.72	1379518.88	13334.00
477370.94	1379519.00	14743.00
478052.47	1379519.00	12501.00
477377.19	1379519.25	9885.00
477902.34	1379521.13	5843.00
477908.59	1379521.25	6985.00
477914.84	1379521.38	7624.00
477921.09	1379521.63	8634.00
477927.34	1379521.75	8186.00
477477.16	1379522.00	8983.00
477933.59	1379522.00	7803.00
477483.41	1379522.13	11386.00
477939.84	1379522.13	8311.00
477489.66	1379522.25	8899.00
477946.09	1379522.25	10062.00
477495.91	1379522.50	7968.00
477952.31	1379522.50	17596.00
477502.16	1379522.63	7793.00
477958.56	1379522.63	12001.00
477508.41	1379522.75	7248.00
477964.81	1379522.75	12346.00
477514.66	1379523.00	10034.00
477971.06	1379523.00	13275.00
477520.91	1379523.13	9494.00
477977.31	1379523.13	10274.00
477752.22	1379523.25	9203.00
477983.56	1379523.25	11549.00
477758.47	1379523.36	8597.00
477533.41	1379523.50	9798.00
477989.81	1379523.50	11638.00

TABLE F-15C
(Continued)

Coordinates			
North	East	Reading (CPM)	
477539.63	1379523.63	9274.00	
477764.72	1379523.63	7558.00	
477996.06	1379523.63	10424.00	
477770.97	1379523.75	9719.00	
477545.88	1379523.88	8487.00	
477777.22	1379523.88	9091.00	
478002.31	1379523.88	7256.00	
477552.13	1379524.00	10677.00	
478008.56	1379524.00	9757.00	
477327.06	1379524.13	9741.00	
478014.81	1379524.13	13334.00	
477101.97	1379524.25	4028.00	
477333.28	1379524.25	8684.00	
478021.06	1379524.38	10381.00	
477339.53	1379524.50	9317.00	
478027.31	1379524.50	19878.00	
477345.78	1379524.63	9390.00	
478033.53	1379524.63	13847.00	
477352.03	1379524.75	9616.00	
478039.78	1379524.88	32978.00	
477358.29	1379525.00	9129.00	
478046.03	1379525.00	16217.00	
477364.53	1379525.13	14609.00	
477370.78	1379525.25	15114.00	
478052.28	1379525.25	10136.00	
477151.94	1379525.50	4812.00	
477377.03	1379525.50	9260.00	
477201.94	1379526.88	4490.00	
477251.91	1379528.25	4549.00	
477477.00	1379528.25	13575.00	
477483.25	1379528.38	10870.00	
477489.50	1379528.50	8218.00	
477495.72	1379528.75	9361.00	
477952.16	1379528.75	14564.00	
477501.97	1379528.88	8242.00	
477958.41	1379528.88	15914.00	
477508.22	1379529.00	9773.00	
477964.66	1379529.00	13709.00	
477514.47	1379529.25	6865.00	
477970.91	1379529.25	14355.00	
477520.72	1379529.38	8197.00	
477977.16	1379529.38	19870.00	
477752.06	1379529.50	9879.00	
477983.41	1379529.50	14508.00	

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477301.88	1379529.63	4521.00
477526.97	1379529.63	14789.00
477758.31	1379529.63	8808.00
477533.22	1379529.75	16760.00
477889.54	1379529.75	22102.00
477539.47	1379529.88	8186.00
477764.56	1379529.88	12766.00
477995.88	1379529.88	30001.00
477770.81	1379530.00	8939.00
477545.72	1379530.13	8621.00
477777.06	1379530.13	10257.00
478002.13	1379530.13	155450.00
477551.97	1379530.25	9585.00
478008.38	1379530.25	29127.00
477326.88	1379530.38	10435.00
478014.63	1379530.38	16359.00
477333.13	1379530.50	9023.00
478020.88	1379530.63	19058.00
477339.38	1379530.75	9010.00
478027.13	1379530.75	19119.00
477345.63	1379530.88	9519.00
478033.38	1379530.88	18634.00
477351.88	1379531.00	4458.00
477351.88	1379531.00	9601.00
478039.63	1379531.13	25863.00
477358.13	1379531.25	10668.00
478045.88	1379531.25	11729.00
477364.38	1379531.38	13678.00
477370.63	1379531.50	12220.00
477376.84	1379531.75	8380.00
477401.84	1379532.38	10017.00
477401.84	1379532.38	4631.00
477408.09	1379532.63	9725.00
477414.34	1379532.75	10696.00
477420.59	1379532.88	9303.00
477426.84	1379533.13	12245.00
477433.09	1379533.25	14815.00
477439.34	1379533.38	8734.00
477445.59	1379533.63	7463.00
477451.84	1379533.75	8509.00
477451.84	1379533.75	4213.00
477458.06	1379533.88	9091.00
477464.31	1379534.13	7595.00
477470.56	1379534.25	8218.00

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(Continued)

Coordinates			
		Reading (CPM)	
North	East	Reading (CPM)	
477476.81	1379534.50	17008.00	
477483.06	1379534.63	8983.00	
477489.31	1379534.75	15114.00	
477495.56	1379535.00	7813.00	
477951.97	1379535.00	14355.00	
477501.81	1379535.13	4141.00	
477501.81	1379535.13	7979.00	
477958.22	1379535.13	11765.00	
477508.06	1379535.25	10890.00	
477964.47	1379535.25	22535.00	
477514.31	1379535.50	6899.00	
477970.72	1379535.50	18182.00	
477520.56	1379535.63	7833.00	
477976.97	1379535.63	21740.00	
477751.88	1379535.75	9773.00	
477983.22	1379535.75	15076.00	
477526.81	1379535.88	7548.00	
477758.13	1379535.88	9719.00	
477533.06	1379536.00	8734.00	
477989.47	1379536.00	27038.00	
477539.28	1379536.13	9088.00	
477764.38	1379536.13	9601.00	
477995.72	1379536.13	24794.00	
477770.63	1379536.25	8772.00	
477545.53	1379536.38	7703.00	
477776.88	1379536.38	10668.00	
478001.97	1379536.38	33718.00	
477551.78	1379536.50	8298.00	
477551.78	1379536.50	4379.00	
478008.22	1379536.50	25752.00	
478014.47	1379536.63	23810.00	
478020.72	1379536.88	56075.00	
478026.97	1379537.00	25424.00	
478033.22	1379537.13	39207.00	
478039.44	1379537.38	17040.00	
478045.69	1379537.50	9584.00	
477601.78	1379537.88	4521.00	
477401.69	1379538.63	12025.00	
477407.94	1379538.88	11153.00	
477414.19	1379539.00	11812.00	
477420.41	1379539.13	10435.00	
477651.75	1379539.25	4756.00	
477426.66	1379539.38	8254.00	
477432.91	1379539.50	12527.00	

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477439.16	1379539.63	12146.00
477445.41	1379539.88	11868.00
477451.66	1379540.00	11606.00
477457.91	1379540.13	7703.00
477464.16	1379540.38	7968.00
477470.41	1379540.50	7548.00
477701.75	1379540.63	5235.00
477476.66	1379540.75	25532.00
477482.91	1379540.88	10564.00
477489.16	1379541.00	8560.00
477495.41	1379541.25	9647.00
477951.81	1379541.25	16575.00
477501.63	1379541.38	8760.00
477958.06	1379541.38	16854.00
477964.31	1379541.50	15152.00
477970.56	1379541.75	22069.00
477976.81	1379541.88	35715.00
477751.72	1379542.00	5819.00
477751.72	1379542.00	10850.00
477983.06	1379542.00	34166.00
477757.97	1379542.13	11549.00
477989.31	1379542.25	25001.00
477764.22	1379542.38	9601.00
477995.53	1379542.38	23077.00
477770.47	1379542.50	10153.00
477776.72	1379542.63	9804.00
478001.78	1379542.63	22814.00
478008.03	1379542.75	18405.00
477782.97	1379542.88	11977.00
478014.28	1379542.88	17392.00
477789.19	1379543.00	9023.00
477795.44	1379543.13	12475.00
478020.53	1379543.13	37975.00
478026.78	1379543.25	18574.00
477801.69	1379543.38	4177.00
477801.69	1379543.38	8646.00
478033.03	1379543.38	27150.00
478039.28	1379543.63	10890.00
477851.69	1379544.75	3482.00
477401.50	1379544.88	10472.00
477407.75	1379545.13	10773.00
477414.00	1379545.25	10753.00
477420.25	1379545.38	11473.00
477426.50	1379545.63	11386.00

TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
477432.75	1379545.75	10696.00
477439.00	1379545.88	11495.00
477445.25	1379546.13	10102.00
477901.66	1379546.13	3908.00
477451.50	1379546.25	7595.00
477457.75	1379546.38	7510.00
477463.97	1379546.63	8669.00
477470.22	1379546.75	9199.00
477926.66	1379546.75	8011.00
477932.91	1379546.88	11195.00
477476.47	1379547.00	10620.00
477482.72	1379547.13	8903.00
477939.16	1379547.13	18073.00
477488.97	1379547.25	7548.00
477945.41	1379547.25	12932.00
477495.22	1379547.50	10939.00
477951.66	1379547.50	19624.00
477951.66	1379547.50	31251.00
477501.47	1379547.63	9741.00
477957.88	1379547.63	12001.00
477964.13	1379547.75	16217.00
477970.38	1379548.00	29558.00
477976.63	1379548.13	33334.00
477751.53	1379548.25	12712.00
477982.88	1379548.25	15385.00
477757.78	1379548.38	13484.00
477989.13	1379548.50	21127.00
477764.03	1379548.63	12475.00
477995.38	1379548.63	21583.00
477770.28	1379548.75	13044.00
477776.53	1379548.88	15385.00
478001.63	1379548.88	9904.00
478001.63	1379548.88	18182.00
478007.88	1379549.00	16575.00
477782.78	1379549.13	13016.00
478014.13	1379549.13	12712.00
477789.03	1379549.25	22223.00
477795.28	1379549.38	11812.00
478020.38	1379549.38	16394.00
478026.63	1379549.50	15626.00
477801.53	1379549.63	8265.00
478032.88	1379549.63	27038.00
478039.13	1379549.88	11517.00
477401.34	1379551.13	11300.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477407.59	1379551.25	11112.00
477413.84	1379551.50	9091.00
477420.09	1379551.63	9260.00
477426.31	1379551.88	11132.00
477432.56	1379552.00	12904.00
477438.81	1379552.13	8671.00
477445.06	1379552.38	7273.00
477451.31	1379552.50	6316.00
477457.56	1379552.63	7126.00
477463.81	1379552.88	8772.00
477470.06	1379553.00	6428.00
477926.47	1379553.00	8535.00
477932.72	1379553.13	9837.00
477476.31	1379553.25	8979.00
477482.56	1379553.38	14743.00
477938.97	1379553.38	22472.00
477488.81	1379553.50	7135.00
477945.22	1379553.50	40001.00
477495.06	1379553.75	8558.00
477951.47	1379553.75	18634.00
477501.31	1379553.88	6811.00
477957.72	1379553.88	14732.00
477963.97	1379554.00	17342.00
477970.22	1379554.25	34882.00
477976.47	1379554.38	20001.00
477751.38	1379554.50	15239.00
477982.72	1379554.50	20980.00
477757.63	1379554.63	17911.00
477763.88	1379554.75	26201.00
477988.97	1379554.75	16306.00
477995.22	1379554.88	9524.00
477770.13	1379555.00	36364.00
478001.44	1379555.00	12606.00
477776.38	1379555.13	18359.00
478007.69	1379555.25	13130.00
477782.63	1379555.38	10001.00
478013.94	1379555.38	14963.00
477788.88	1379555.50	137623.00
477795.09	1379555.63	12527.00
478020.19	1379555.63	30457.00
478026.44	1379555.75	19170.00
477801.34	1379555.88	8646.00
478032.69	1379555.88	28302.00
478038.39	1379556.13	10715.00

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January 21, 1995TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
477401.16	1379557.38	9798.00
477407.41	1379557.50	9934.00
477413.66	1379557.75	8916.00
477419.91	1379557.88	11195.00
477426.16	1379558.13	9757.00
477432.41	1379558.25	9885.00
477438.66	1379558.38	10831.00
477444.91	1379558.63	8001.00
477451.16	1379558.75	8380.00
477457.41	1379558.88	7335.00
477463.66	1379559.13	7854.00
477469.88	1379559.25	6765.00
477926.31	1379559.25	8131.00
477932.56	1379559.38	12296.00
477476.13	1379559.50	8572.00
477482.38	1379559.63	7501.00
477938.81	1379559.63	13216.00
477488.63	1379559.75	6363.00
477945.06	1379559.75	56565.00
477494.88	1379560.00	11882.00
477951.31	1379560.00	20989.00
477501.13	1379560.13	8043.00
477957.56	1379560.13	24591.00
477963.78	1379560.25	36683.00
477970.03	1379560.50	28154.00
477976.28	1379560.63	30643.00
477751.22	1379560.75	14493.00
477982.53	1379560.75	16950.00
477757.44	1379560.88	17046.00
477763.69	1379561.00	17658.00
477988.78	1379561.00	13110.00
477995.03	1379561.13	10170.00
477769.94	1379561.25	12073.00
478001.28	1379561.25	10910.00
477776.19	1379561.38	18529.00
477551.09	1379561.50	10051.00
478007.53	1379561.50	14564.00
477557.34	1379561.63	8298.00
477782.44	1379561.63	15152.00
478013.78	1379561.63	20690.00
477788.69	1379561.75	22472.00
477563.59	1379561.88	8153.00
477794.94	1379561.88	12749.00
478020.03	1379561.88	19355.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477569.84	1379562.00	8811.00
478026.28	1379562.00	22701.00
477576.09	1379562.13	8404.00
477801.19	1379562.13	10811.00
478032.53	1379562.13	17242.00
477926.13	1379565.50	7634.00
477932.38	1379565.63	7939.00
477475.97	1379565.75	7803.00
477482.22	1379565.88	8380.00
477938.63	1379565.88	17143.00
477488.47	1379566.00	8220.00
477944.88	1379566.00	9773.00
477494.72	1379566.25	9274.00
477951.13	1379566.25	12990.00
477500.97	1379566.38	10959.00
477957.38	1379566.38	110910.00
477963.63	1379566.50	137620.00
477969.88	1379566.75	22999.00
477976.13	1379566.88	13836.00
477751.03	1379567.00	19119.00
477982.38	1379567.00	9837.00
477757.28	1379567.13	15916.00
477763.53	1379567.25	20629.00
477988.63	1379567.25	11765.00
477994.88	1379567.38	10715.00
477769.78	1379567.50	17292.00
478001.13	1379567.50	10696.00
477776.03	1379567.63	20906.00
477550.94	1379567.75	8785.00
478007.34	1379567.75	16484.00
477557.19	1379567.88	9203.00
477782.28	1379567.88	17658.00
478013.59	1379567.88	27038.00
477788.53	1379568.00	16667.00
477563.44	1379568.13	9719.00
477794.78	1379568.13	17143.00
478193.84	1379568.13	23256.00
477569.69	1379568.25	8334.00
478026.09	1379568.25	30304.00
477575.94	1379568.38	8824.00
477801.00	1379568.38	15666.00
478032.34	1379568.38	39862.00
477807.25	1379568.50	9105.00
477813.50	1379568.63	9274.00

TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
477819.75	1379568.88	9570.00
477826.00	1379569.00	9519.00
477851.00	1379569.75	11977.00
477857.25	1379569.88	10051.00
477863.50	1379570.00	8463.00
477869.75	1379570.25	8808.00
477876.00	1379570.38	9694.00
477925.97	1379571.75	7871.00
477475.78	1379571.88	7529.00
477932.22	1379571.88	8307.00
477482.03	1379572.13	8785.00
477938.47	1379572.13	49181.00
477488.28	1379572.25	8487.00
477944.72	1379572.25	35715.00
477950.97	1379572.38	13761.00
477494.53	1379572.50	8696.00
477500.78	1379572.63	8785.00
477957.22	1379572.63	17046.00
477963.47	1379572.75	17596.00
477969.69	1379573.00	18127.00
477975.94	1379573.13	11076.00
477750.88	1379573.25	12146.00
477982.19	1379573.25	10564.00
477757.13	1379573.38	22901.00
477763.34	1379573.50	19481.00
477988.44	1379573.50	10681.00
477994.69	1379573.63	12196.00
478000.94	1379573.75	11105.00
477775.84	1379573.88	24591.00
477550.78	1379574.00	47254.00
478007.19	1379574.00	15666.00
477100.59	1379574.13	3896.00
477557.00	1379574.13	12171.00
477782.09	1379574.13	21740.00
478013.44	1379574.13	31251.00
477788.34	1379574.25	21989.00
477563.25	1379574.38	8719.00
477794.59	1379574.38	23623.00
478019.69	1379574.38	23810.00
477369.50	1379574.50	8619.00
478025.94	1379574.50	25863.00
477575.75	1379574.63	8523.00
477800.84	1379574.63	26559.00
478032.19	1379574.63	10850.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477807.09	1379574.75	9133.00
477813.34	1379574.88	9175.00
477819.59	1379575.13	8646.00
478050.91	1379575.13	11495.00
477825.84	1379575.25	9050.00
477150.56	1379575.50	4175.00
477850.81	1379576.00	14052.00
477857.06	1379576.13	19058.00
477863.31	1379576.25	18359.00
477869.56	1379576.50	10310.00
477875.81	1379576.63	10870.00
477200.56	1379576.88	4075.00
477925.78	1379578.00	8584.00
477475.63	1379578.13	7833.00
477932.03	1379578.13	10400.00
477250.53	1379578.25	3385.00
477481.88	1379578.38	80220.00
477488.13	1379578.50	9390.00
477944.53	1379578.50	79930.00
477950.78	1379578.63	10280.00
477494.38	1379578.75	8380.00
477500.63	1379578.88	7482.00
477957.03	1379578.88	10788.00
477963.28	1379579.00	51725.00
477969.53	1379579.25	23810.00
477975.78	1379578.38	10990.00
477750.69	1379579.50	9885.00
477982.03	1379579.50	10034.00
477300.53	1379579.63	4434.00
477756.94	1379579.63	16217.00
477763.19	1379579.75	10583.00
477988.28	1379579.75	8939.00
477994.53	1379579.88	10496.00
477769.44	1379580.00	19481.00
478000.78	1379530.00	14706.00
477775.69	1379580.13	24097.00
477550.59	1379580.25	9524.00
478007.03	1379580.25	25975.00
477556.84	1379580.38	9616.00
477781.94	1379580.38	26087.00
478013.25	1379580.38	31251.00
477788.19	1379580.50	38217.00
477563.09	1379580.63	9570.00
477794.44	1379580.63	21829.00

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TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
478019.50	1379580.63	34306.00
477569.34	1379580.75	8719.00
478025.75	1379580.75	18576.00
477575.59	1379580.88	9519.00
477800.69	1379580.88	20135.00
477350.50	1379581.00	4857.00
477806.91	1379581.00	12632.00
477813.16	1379581.13	13216.00
477819.41	1379581.38	8392.00
477825.66	1379581.50	9133.00
477850.66	1379582.25	9175.00
477400.47	1379582.38	4219.00
477856.91	1379582.38	8772.00
477863.16	1379582.50	22141.00
477869.41	1379582.75	12527.00
477875.66	1379582.88	12346.00
477450.47	1379583.75	5215.00
477925.63	1379584.25	8899.00
477475.44	1379584.38	8734.00
477931.88	1379584.38	11549.00
477481.69	1379584.63	9459.00
477938.13	1379584.63	78330.00
477487.94	1379584.75	9298.00
477950.63	1379584.88	119150.00
477494.19	1379585.00	9129.00
477500.44	1379585.13	9023.00
477500.44	1379585.13	3917.00
477956.88	1379585.13	8876.00
477963.13	1379585.25	13637.00
477969.34	1379585.50	13312.00
477975.59	1379585.63	10345.00
477750.53	1379585.75	10129.00
477981.84	1379585.75	10962.00
477756.78	1379585.88	16807.00
477763.00	1379586.00	17911.00
477988.09	1379586.00	9317.00
477994.34	1379586.13	10490.00
477769.25	1379586.25	12423.00
478000.59	1379586.25	33334.00
477775.50	1379586.38	21053.00
477550.44	1379586.50	8671.00
477550.44	1379586.50	4370.00
478006.84	1379586.50	39216.00
477556.66	1379586.63	9902.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477781.75	1379586.63	25001.00
478013.09	1379586.63	40817.00
477788.00	1379586.75	31915.00
477562.91	1379586.88	8811.00
477794.25	1379586.88	29704.00
478019.34	1379586.88	26602.00
477569.16	1379587.00	9105.00
478025.59	1379587.00	33916.00
477575.41	1379587.13	8220.00
477800.50	1379587.13	19231.00
477806.75	1379587.25	24097.00
477813.00	1379587.38	10153.00
477819.25	1379587.63	7762.00
477825.50	1379587.75	8357.00
477600.41	1379587.88	3945.00
477850.47	1379588.50	12321.00
477856.72	1379588.63	15968.00
477862.97	1379588.75	11905.00
477869.22	1379589.00	19170.00
477875.47	1379589.13	28437.00
477650.38	1379589.25	42171.00
477925.47	1379590.50	8876.00
477700.38	1379590.63	4291.00
477931.69	1379590.63	11877.00
477937.94	1379590.88	31251.00
477944.19	1379591.00	10310.00
477950.44	1379591.13	16043.00
477956.69	1379591.38	9837.00
477962.94	1379591.50	8131.00
477969.19	1379591.75	10787.00
477975.44	1379591.88	12097.00
477750.34	1379592.00	4529.00
477750.34	1379592.00	9741.00
477756.59	1379592.13	10715.00
477762.84	1379592.25	10910.00
477987.94	1379592.25	9405.00
477994.19	1379592.38	16854.00
477769.09	1379592.50	10959.00
478000.44	1379592.50	23292.00
477775.34	1379592.63	10773.00
477781.59	1379592.75	1393.00
478006.69	1379592.75	32619.00
478012.94	1379592.88	20834.00
477787.84	1379593.00	23167.00

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FEMP-OU02-6 FINAL
January 21, 1995TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
478019.16	1379593.00	26201.00
477794.09	1379593.13	28170.00
478025.41	1379593.25	16760.00
477800.34	1379593.38	13730.00
477800.34	1379593.38	5785.00
477806.56	1379593.50	15666.00
477812.81	1379593.63	13825.00
477819.06	1379593.88	9585.00
477825.31	1379594.00	13393.00
477831.56	1379594.13	10910.00
477837.81	1379594.38	11268.00
477844.06	1379594.50	15076.00
477850.31	1379594.75	11729.00
477850.31	1379594.75	5841.00
477866.56	1379594.88	26316.00
477862.81	1379595.00	12589.00
477869.06	1379595.25	6773.00
477875.31	1379595.38	6921.00
477900.28	1379596.00	6652.00
477900.28	1379596.00	3524.00
477906.53	1379596.25	6623.00
477912.78	1379596.38	6865.00
477919.03	1379596.63	9694.00
477925.28	1379596.75	8298.00
477931.53	1379596.88	9217.00
477937.78	1379597.13	20067.00
477944.03	1379597.25	8837.00
477950.28	1379597.38	8621.00
477950.28	1379597.38	4503.00
477956.53	1379594.63	10792.00
477962.78	1379597.75	10078.00
477969.03	1379598.00	13849.00
477975.25	1379598.13	9837.00
477981.50	1379598.25	9616.00
477987.75	1379598.50	12245.00
477994.00	1379598.63	21775.00
478000.25	1379598.75	15625.00
478000.25	1379598.75	36810.00
478006.50	1379599.00	44777.00
478012.75	1379599.13	25424.00
478019.00	1379599.25	53106.00
477800.16	1379599.63	20558.00
477806.41	1379599.75	25317.00
477812.66	1379599.88	26432.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477818.91	1379600.13	28719.00
477825.16	1379600.25	11268.00
477831.41	1379600.38	12122.00
477837.66	1379600.63	10078.00
477843.91	1379600.75	20001.00
477850.16	1379601.00	10153.00
477856.38	1379601.13	23530.00
477862.63	1379601.25	9879.00
477868.88	1379601.50	8671.00
477875.13	1379601.63	6829.00
477199.88	1379601.88	8837.00
477206.13	1379602.13	8197.00
477212.38	1379602.25	8449.00
477900.13	1379602.25	6428.00
477906.38	1379602.50	8558.00
477224.88	1379602.63	8684.00
477912.63	1379602.63	9129.00
477918.88	1379602.88	16539.00
477925.13	1379603.00	10017.00
477975.09	1379604.38	11321.00
477981.34	1379604.50	9879.00
477987.59	1379604.75	9792.00
477993.84	1379604.88	22223.00
478000.09	1379605.00	36586.00
478006.34	1379605.25	33334.00
478012.59	1379605.38	40817.00
478018.81	1379605.50	16088.00
477800.00	1379605.88	23448.00
478806.25	1379606.00	41096.00
477812.47	1379606.13	28719.00
477818.72	1379606.38	18692.00
477824.97	1379606.50	16714.00
477831.22	1379606.63	28302.00
477837.47	1379606.88	20834.00
477843.72	1379607.00	13899.00
477849.97	1379607.13	12527.00
477856.22	1379607.38	9064.00
477862.47	1379607.50	10187.00
477868.72	1379607.75	8996.00
477874.97	1379607.88	8760.00
477199.69	1379608.13	9199.00
477205.94	1379608.38	9037.00
477212.19	1379608.50	8916.00
477899.94	1379608.50	8197.00

TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
477218.44	1379608.63	8721.00
477906.19	1379608.75	8033.00
477224.69	1379608.88	9147.00
477912.44	1379608.88	10601.00
477918.69	1379609.13	24490.00
477924.94	1379609.25	10170.00
477974.94	1379610.63	11289.00
477981.16	1379610.75	15048.00
477987.41	1379611.00	11396.00
477993.66	1379611.13	20980.00
477999.91	1379611.25	34683.00
9478006.16	1379611.50	22814.00
478012.41	1379611.63	28170.00
477799.81	1379612.13	11112.00
477806.06	1379612.25	23256.00
477812.31	1379612.38	23530.00
477818.56	1379612.63	20203.00
477824.81	1379612.75	6117.00
477831.06	1379612.88	21740.00
477837.31	1379613.13	18938.00
477843.56	1379613.25	15464.00
477849.81	1379613.38	12606.00
477856.03	1379613.63	10518.00
477862.28	1379613.75	8535.00
477868.53	1379614.00	9585.00
477874.78	1379614.13	10363.00
477199.53	1379614.38	8043.00
477205.78	1379614.63	8721.00
477212.03	1379614.75	8298.00
477899.78	1379614.75	9133.00
477218.28	1379614.88	10001.00
477906.03	1379615.00	8379.00
477224.53	1379615.13	8734.00
477912.28	1379615.13	24097.00
477918.53	1379615.38	8760.00
477924.78	1379615.50	7595.00
477974.75	1379616.88	9879.00
477981.00	1379617.00	12184.00
477987.25	1379617.25	20690.00
477993.50	1379617.38	20135.00
477999.75	1379617.50	25211.00
478006.00	1379617.75	48001.00
478012.25	1379617.88	14320.00
477799.66	1379618.38	10363.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477805.91	1379618.50	12321.00
477812.16	1379618.63	23167.00
477818.38	1379618.88	15307.00
477824.63	1379619.00	14128.00
477830.88	1379619.13	18405.00
477837.13	1379619.38	26667.00
477843.38	1379619.50	19281.00
477849.63	1379619.63	16854.00
477855.88	1379619.88	16449.00
477862.13	1379620.00	9091.00
477868.38	1379620.25	8942.00
477847.63	1379620.38	9390.00
477199.34	1379620.63	9494.00
477205.59	1379620.75	8996.00
477211.84	1379621.00	9741.00
477899.59	1379621.00	8684.00
477218.09	1379621.13	15707.00
477905.84	1379621.25	9719.00
477224.34	1379621.38	88890.00
477912.09	1379621.38	15190.00
477918.34	1379621.63	21908.00
477924.59	1379621.75	8309.00
477930.84	1379621.88	8684.00
477937.09	1379622.13	7010.00
477943.34	1379622.25	7793.00
477949.59	1379622.38	10274.00
477955.84	1379622.63	12858.00
477962.09	1379622.72	11584.00
477968.34	1379622.88	12196.00
477974.59	1379623.13	8903.00
477980.84	1379623.25	15088.00
477987.06	1379623.50	17975.00
477993.31	139623.63	55382.00
477999.56	1379623.75	30613.00
478005.81	1379624.00	49181.00
477099.22	1379624.13	4214.00
478012.06	1379624.13	10850.00
477799.47	1379624.50	9967.00
477805.72	1379624.75	11112.00
477811.97	1379624.88	10959.00
477818.22	1379625.13	12998.00
477824.47	1379625.25	20558.00
477149.22	1379625.50	5506.00
477149.22	1379625.50	10910.00

TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
477155.47	1379625.75	10564.00
477161.69	1379625.88	11386.00
477849.47	1379625.88	14493.00
477167.94	1379626.00	11696.00
477855.72	1379626.13	12858.00
477174.19	1379626.25	13304.00
477861.94	1379626.25	9741.00
477180.44	1379626.38	13334.00
477186.69	1379626.50	9231.00
477868.19	1379626.50	8808.00
477874.44	1379626.63	9662.00
477192.94	1379626.75	13606.00
477199.19	1379626.88	11617.00
477199.19	1379626.88	30613.00
477205.44	1379627.00	13334.00
477211.69	1379627.25	32269.00
477899.44	1379627.25	9088.00
477217.94	1379627.38	13168.00
477905.69	1379627.50	8054.00
477224.19	1379627.63	42254.00
477911.94	1379627.63	10696.00
477230.44	1379627.75	8108.00
477918.19	1379627.75	168070.00
477236.69	1379627.88	9064.00
477924.44	1379628.00	16950.00
477242.91	1379628.13	8684.00
477930.69	1379628.13	8824.00
477249.16	1379628.25	4397.00
477249.16	1379628.25	8357.00
477936.94	1379628.38	7101.00
477943.16	1379628.50	8754.00
477949.41	1379628.63	11035.00
477955.66	1379628.88	9837.00
477961.91	1379629.00	10870.00
477968.16	1379629.13	7026.00
477974.41	1379629.38	12241.00
477980.66	1379629.50	23623.00
477299.16	1379629.63	3982.00
477986.91	1379629.75	15346.00
477993.16	1379629.88	33718.00
477999.41	1379630.00	41969.00
478005.66	1379630.25	31099.00
477799.31	1379630.75	10831.00
477349.13	1379631.00	4462.00

TABLE F-15C
(Continued)

Coordinates			
		Reading (CPM)	
North	East	Reading (CPM)	
477805.56	1379631.00	9601.00	
477811.81	1379631.13	9741.00	
477818.06	1379631.38	10527.00	
477824.28	1379631.50	13130.00	
477149.03	1379631.75	11010.00	
477155.28	1379632.00	9050.00	
477161.53	1379632.13	14670.00	
477849.28	1379632.13	10792.00	
477167.78	1379632.25	322814.00	
477899.13	1379632.38	4403.00	
447855.53	1379632.38	12220.00	
477974.25	1379635.63	27273.00	
477980.50	1379635.75	44171.00	
477986.72	1379636.00	43489.00	
477992.97	1379636.13	36145.00	
477999.22	1379636.25	43489.00	
478005.47	1379636.50	4099.00	
478005.47	1379636.50	16667.00	
477799.13	1379637.00	9928.00	
477805.38	1379637.25	9647.00	
477811.63	1379637.38	10792.00	
477817.88	1379637.63	11451.00	
477824.13	1379637.75	12270.00	
477559.03	1379637.88	4179.00	
477148.88	1379638.00	12794.00	
477155.13	1379638.13	11386.00	
477161.34	1379638.38	6865.00	
477849.13	1379638.38	12904.00	
477167.59	1379638.50	18405.00	
477855.38	1379638.63	9246.00	
477173.84	1379638.75	356586.00	
477861.63	1379638.75	9064.00	
477180.09	1379638.88	33909.00	
477186.34	1379639.00	27408.00	
477867.84	1379639.00	11651.00	
477874.09	1379639.13	10601.00	
477192.59	1379639.25	27273.00	
477649.03	1379639.25	4444.00	
477198.84	1379639.38	9967.00	
477205.09	1379639.50	9231.00	
477211.34	1379639.75	9105.00	
477899.09	1379639.75	10051.00	
477905.34	1379640.00	7529.00	
477223.84	1379640.13	8345.00	

TABLE F-15C
(Continued)

Coordinates			
North	East	Reading (CPM)	
477911.59	1379640.13	16621.00	
477230.09	1379640.25	8311.00	
477917.84	1379640.25	14468.00	
477236.34	1379640.38	8487.00	
477924.09	1379640.50	258630.00	
477242.59	1379640.63	9317.00	
477699.00	1379640.63	4513.00	
477930.34	1379640.63	11798.00	
477248.81	1379640.75	8942.00	
477936.59	1379640.88	10753.00	
477942.84	1379641.00	10583.00	
477949.06	1379641.13	11765.00	
477955.31	1379641.38	9585.00	
477961.56	1379641.50	17143.00	
477697.81	1379641.63	27207.00	
477748.97	1379641.88	4680.00	
477974.06	1379641.88	35295.00	
477980.31	1379642.00	42254.00	
477986.56	1379642.13	32357.00	
477992.81	1379642.38	34091.00	
477999.06	1379642.50	22999.00	
477798.97	1379643.24	9494.00	
477798.97	1379643.25	4916.00	
477805.22	1379643.50	9879.00	
477811.47	1379643.63	9555.00	
477817.72	1379643.88	11236.00	
477823.94	1379644.00	12669.00	
477148.69	1379644.25	12397.00	
477154.94	1379644.38	12220.00	
477161.19	1379644.63	9105.00	
477848.94	1379644.63	8087.00	
477848.94	1379644.63	17342.00	
477167.44	1379644.75	8076.00	
477855.19	1379644.88	8983.00	
477173.69	1379645.00	30001.00	
477861.44	1379645.00	10990.00	
477179.94	1379645.13	51283.00	
477867.69	1379645.13	9934.00	
477186.19	1379645.25	28302.00	
477873.94	1379645.38	9317.00	
477192.44	1379645.50	9434.00	
477198.69	1379645.63	8334.00	
477204.91	1379645.75	8379.00	
477211.16	1379646.00	10017.00	

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477898.94	1379646.00	5262.00
477898.94	1379646.00	10153.00
477217.41	1379646.13	8220.00
477905.19	1379646.25	9741.00
477223.66	1379646.38	8719.00
477911.41	1379646.38	19618.00
477229.91	1379646.50	8721.00
477917.66	1379646.50	13857.00
477236.16	1379646.63	9199.00
477923.91	1379646.75	20135.00
477242.41	1379646.88	9719.00
477930.16	1379646.88	17848.00
477248.66	1379647.00	8808.00
477936.41	1379647.13	10298.00
477942.66	1379647.25	11799.00
477948.91	1379647.38	6177.00
477948.91	1379647.38	10417.00
477955.16	1379647.63	8983.00
477961.41	1379647.75	21740.00
477967.66	1379647.88	31251.00
477973.91	1379648.13	34568.00
477980.16	1379648.25	27273.00
477986.41	1379648.38	43489.00
477992.63	1379648.63	23077.00
477998.88	1379648.75	13840.00
477148.53	1379650.50	13246.00
477154.78	1379650.63	12712.00
477161.03	1379650.88	9175.00
477167.25	1379651.00	7864.00
477173.50	1379651.25	8131.00
477179.75	1379651.38	8033.00
477186.00	1379651.50	7844.00
477192.25	1379651.75	5587.00
477198.50	1379651.88	7895.00
477204.75	1379652.00	8785.00
477211.00	1379652.25	9524.00
477898.75	1379652.25	9274.00
477217.25	1379652.38	8696.00
477905.00	1379652.50	9804.00
477223.50	1379652.63	8584.00
477911.25	1379652.63	14493.00
477229.75	1379652.75	9217.00
477917.50	1379652.75	9549.00
477236.00	1379652.88	8983.00

TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
477923.75	1379653.00	30462.00
477242.25	1379653.13	8696.00
477930.00	1379653.13	9902.00
477248.47	1379653.25	8719.00
477936.25	1379653.88	8404.00
477942.50	1379653.50	7043.00
477948.75	1379653.63	9298.00
477954.97	1379653.88	9879.00
477961.22	1379654.00	21908.00
477697.47	1379654.13	32978.00
477973.72	1379654.38	30984.00
477979.97	1379654.50	27523.00
477986.22	1379654.63	16305.00
477992.47	1379654.88	8153.00
477898.59	1379658.50	8646.00
477904.84	1379658.75	8404.00
477911.09	1379658.88	7654.00
477917.31	1379659.00	10001.00
477923.56	1379659.25	11071.00
477929.81	1379659.38	9421.00
477929.81	1379659.38	9421.00
477936.06	1379659.50	8175.00
477942.31	1379659.75	8721.00
477948.56	1379659.88	7654.00
477954.81	1379660.13	16216.00
477961.06	1379660.25	18332.00
477967.31	1379660.38	26071.00
477973.56	1379660.63	34132.00
477979.81	1379660.75	21439.00
477986.06	1379660.88	9129.00
477992.31	1379661.13	10205.00
477898.41	1379664.75	8734.00
477904.66	1379665.00	8416.00
477910.91	1379665.13	9260.00
477917.16	1379665.25	8572.00
477923.41	1379665.50	14852.00
477929.66	1379665.63	9010.00
477935.91	1379665.75	8899.00
477942.16	1379666.00	6798.00
477948.41	1379666.13	8519.00
477954.66	1379666.38	10870.00
477960.88	1379666.50	13762.00
477967.13	1379666.63	27273.00
477973.38	1379666.88	18293.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477979.63	1379667.00	15968.00
477985.88	1379667.13	9647.00
477992.13	1379667.38	13825.00
477898.25	1379671.00	9037.00
477904.50	1379671.25	9662.00
477910.75	1379671.38	8684.00
477916.97	1379671.50	9203.00
477923.22	1379671.75	10153.00
477929.47	1379671.88	10130.00
477935.72	1379672.00	7968.00
477941.97	1379672.25	5820.00
477948.22	1379672.38	7916.00
477954.47	1379672.63	11105.00
477960.72	1379672.75	18998.00
477966.97	1379672.88	31546.00
477973.22	1379673.13	31251.00
477979.47	1379673.25	8451.00
477985.72	1379673.38	11631.00
477097.84	1379674.13	3001.00
477147.84	1379675.50	4110.00
477197.81	1379676.88	2958.00
477948.06	1379678.63	9376.00
477954.31	1379678.88	11163.00
477960.53	1379679.00	20271.00
477966.78	1379678.13	31575.00
477973.03	1379679.38	49181.00
477979.28	1379678.50	9346.00
477985.53	1379679.63	24794.00
482168.31	1379681.63	17485.00
477397.75	1379682.38	3901.00
477447.72	1379683.75	4162.00
477947.88	1379684.88	12196.00
477497.72	1379685.13	3904.00
477654.13	1379685.13	11638.00
477960.38	1379685.25	21725.00
477966.63	1379685.38	35945.00
477972.88	1379685.63	34560.00
477985.38	1379685.88	31589.00
477547.69	1379686.50	4410.00
477597.66	1379687.88	4317.00
477647.66	1379689.13	4235.00
477697.63	1379690.50	4342.00
477947.72	1379691.18	11638.00
477953.97	1379691.38	18182.00

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FEMP-OU02-6 FINAL
January 21, 1995TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
477960.22	1379691.50	45802.00
477966.44	1379691.63	59407.00
477747.63	1379691.88	4323.00
477972.69	1379691.88	46154.00
477978.94	1379692.00	17752.00
477797.59	1379693.25	4517.00
477847.56	1379694.63	5351.00
477872.56	1379695.38	10472.00
477878.81	1379695.50	10668.00
477885.06	1379695.63	10490.00
477891.31	1379695.88	9719.00
477897.56	1379696.00	9741.00
477897.56	1379696.00	4283.00
477947.53	1379697.38	6342.00
477947.53	1379697.38	10381.00
477953.78	1379697.50	12749.00
477960.03	1379697.75	44777.00
477966.28	1379697.88	68810.00
477972.53	1379698.13	29704.00
477978.78	1379698.25	68810.00
477872.41	1379701.63	11606.00
477878.66	1379701.75	11174.00
477884.91	1379701.88	10034.00
477891.13	1379702.13	10001.00
477897.38	1379702.00	10249.00
477947.38	1379703.63	14048.00
477953.63	1379703.75	13899.00
477959.88	1379704.00	55720.00
477966.13	1379704.13	46098.00
477978.59	1379704.50	30304.00
477872.22	1379707.88	10583.00
477878.47	1379708.00	9161.00
477884.72	1379708.13	10292.00
477890.97	1379708.38	9390.00
477897.22	1379708.50	9773.00
477947.19	1379709.88	23077.00
477953.44	1379710.00	15239.00
477959.69	1379710.25	42254.00
477965.94	1379710.38	36145.00
477972.19	1379710.63	54546.00
477978.44	1379710.75	15385.00
477872.06	1379714.13	9837.00
477878.31	1379714.25	10129.00
477884.56	1379714.38	9741.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477890.78	1379714.63	8511.00
477897.03	1379714.75	9376.00
477947.03	1379716.13	12459.00
477953.28	1379716.25	27788.00
477959.53	1379716.50	41737.00
477972.03	1379716.88	75950.00
477796.91	1379718.25	10527.00
477803.16	1379718.50	10518.00
477809.41	1379718.63	11050.00
477815.66	1379718.75	9549.00
477821.91	1379719.00	10244.00
477871.88	1379720.38	9741.00
477878.13	1379720.50	10518.00
477884.38	1379720.63	11439.00
477890.63	1379720.88	15076.00
477896.88	1379721.00	12001.00
477903.13	1379721.13	10249.00
477909.38	1379721.38	9967.00
477915.63	1379721.50	13825.00
477921.88	1379721.75	11132.00
477928.13	1379721.88	11132.00
477934.34	1379722.00	13364.00
477940.59	1379722.25	15626.00
477946.84	1379722.38	13101.00
477953.09	1379722.50	21494.00
477959.34	1379722.75	33296.00
477971.84	1379723.13	29736.00
477071.50	1379723.38	9885.00
477077.75	1379723.63	9199.00
477084.00	1379723.75	10409.00
477090.25	1379724.00	11030.00
477096.50	1379724.13	9662.00
477096.50	1379724.13	10158.00
477796.75	1379724.50	11939.00
477803.00	1379724.75	10274.00
477809.25	1379724.88	13423.00
477815.47	1379725.00	15504.00
477871.72	1379726.63	10979.00
477877.97	1379726.75	8956.00
477884.22	1379726.88	11939.00
477890.47	1379727.13	14085.00
477896.69	1379727.25	13794.00
477902.94	1379727.38	16001.00
477909.19	1379727.63	12025.00

TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
477915.44	1379727.75	14355.00
477921.69	1379728.00	10222.00
477927.94	1379728.13	13637.00
477934.19	1379728.25	18751.00
477940.44	1379728.50	27650.00
477946.69	1379728.63	13275.00
477952.94	1379728.75	27611.00
477959.19	1379729.00	41667.00
477971.69	1379729.25	17753.00
477796.56	1379730.75	16854.00
477802.81	1379731.00	13246.00
477809.06	1379731.13	11606.00
477815.31	1379731.25	10085.00
477821.56	1379731.50	10170.00
477871.53	1379732.88	10136.00
477877.78	1379733.00	9741.00
477884.03	1379733.13	9879.00
477890.28	1379733.38	10409.00
477896.53	1379733.50	14743.00
477940.44	1379728.50	27650.00
477946.69	1379728.63	13275.00
477952.94	1379728.75	27611.00
477959.19	1379729.00	41667.00
477971.69	1379729.25	17753.00
477902.78	1379733.63	18248.00
477909.03	1379733.88	11236.00
477915.28	1379734.00	10381.00
477921.53	1379734.25	11343.00
477927.78	1379734.38	10454.00
477934.03	1379734.50	18540.00
477940.25	1379734.75	20067.00
477946.50	1379734.88	19618.00
477496.34	1379735.00	4134.00
477952.75	1379735.00	29885.00
477959.00	1379735.00	29704.00
477546.31	1379736.38	4261.00
477796.41	1379737.00	10850.00
477802.66	1379737.25	11174.00
477808.91	1379737.37	11977.00
477815.13	1379737.50	10435.00
477596.31	1379737.75	3363.00
477821.38	1379737.75	9820.00
477646.28	1379739.13	4110.00
477871.38	1379739.13	10753.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477877.63	1379739.25	10001.00
477883.88	1379739.38	9064.00
477890.13	1379739.63	9175.00
477896.38	1379739.75	17752.00
477902.59	1379739.88	13393.00
477908.84	1379740.13	16902.00
477915.09	1379740.25	9549.00
47796.25	1379740.50	4789.00
477921.34	1379740.50	8684.00
477927.59	1379740.63	13453.00
477933.84	1379740.75	27150.00
477940.09	1379741.00	13072.00
477946.34	1379741.13	18998.00
477952.59	1379741.25	30938.00
477746.25	1379741.88	4213.00
477796.22	1379743.25	4796.00
477796.22	1379743.25	9303.00
477802.47	1379743.50	9885.00
477808.72	1379743.63	11300.00
477814.97	1379743.75	9662.00
477821.22	1379744.00	10136.00
477871.19	1379745.38	10310.00
477877.44	1379745.50	9023.00
477883.69	1379745.63	9601.00
477889.94	1379745.88	10222.00
477896.19	1379746.00	11132.00
477896.19	1379746.00	5018.00
477908.69	1379746.38	40541.00
477914.94	1379796.50	19803.00
477921.19	1379746.63	10508.00
477927.44	1379746.88	14928.00
477933.69	1379747.00	46592.00
477939.94	1379747.25	26599.00
477946.16	1379747.38	25404.00
477946.16	1379747.38	11953.00
477952.41	1379747.50	19481.00
477964.91	1379747.88	17316.00
477996.16	1379748.75	5043.00
477877.28	1379751.75	14670.00
477883.53	1379751.88	10078.00
477889.78	1379752.13	9298.00
477896.03	1379752.25	10381.00
477902.28	1379752.38	13304.00
477908.50	1379752.63	14743.00

TABLE F-15C
(Continued)

Coordinates			
		Reading (CPM)	
North	East	Reading (CPM)	
477914.75	1379752.75	10017.00	
477921.00	1379752.88	9741.00	
477927.25	1379753.13	21277.00	
477933.50	1379753.25	24516.00	
477939.75	1379753.50	21583.00	
477946.00	1379753.63	21277.00	
477952.25	1379753.75	15385.00	
477964.75	1379754.13	12712.00	
477870.84	1379757.88	9219.00	
477877.09	1379758.00	10773.00	
477883.34	1379758.13	20340.00	
477889.59	1379758.38	12553.00	
477895.84	1379758.50	10417.00	
477902.09	1379758.63	11812.00	
477908.34	1379758.88	12632.00	
477914.59	1379759.00	15626.00	
477920.84	1379759.13	18998.00	
477927.09	1379759.38	36965.00	
477933.34	1379759.50	33150.00	
477939.59	1379759.75	22305.00	
477945.84	1379759.88	26087.00	
477952.06	1379760.00	25424.00	
477964.56	1379760.38	9010.00	
477870.69	1379764.00	8621.00	
477876.94	1379764.25	11082.00	
477889.44	1379764.63	14743.00	
477895.69	1379764.75	9694.00	
477901.94	1379764.88	9464.00	
477908.16	1379765.13	15152.00	
477914.41	1379765.25	13857.00	
477920.66	1379765.38	68810.00	
477926.91	1379765.63	46876.00	
477933.16	1379765.75	35715.00	
477939.41	1379766.00	14887.00	
477945.66	1379766.13	28302.00	
477951.91	1379766.25	20834.00	
477958.16	1379766.50	23905.00	
477170.25	1379769.88	12296.00	
477858.03	1379770.00	7454.00	
477176.50	1379770.13	13044.00	
477864.28	1379770.13	9519.00	
477883.19	1379764.38	18998.00	
477870.50	1379770.25	8903.00	
477876.75	1379770.50	8811.00	

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477883.00	1379770.63	12097.00
477889.25	1379770.88	21353.00
477895.50	1379771.00	14635.00
477901.75	1379771.13	9555.00
477908.00	1379771.38	10417.00
477914.25	1379771.50	34483.00
477920.50	1379771.63	36586.00
477926.75	1379771.88	46154.00
477933.00	1379772.00	28572.00
477939.25	1379772.25	15048.00
477945.50	1379772.38	22901.00
477957.97	1379772.75	14762.00
477845.34	1379775.88	9217.00
477851.59	1379776.00	12059.00
477857.84	1379776.25	8076.00
477864.09	1379776.38	7409.00
477870.34	1379776.50	7567.00
477895.34	1379777.25	14789.00
477901.59	1379777.38	10620.00
477907.84	1379777.63	11868.00
477914.06	1379777.75	25532.00
477920.31	1379777.88	64310.00
477926.56	1379778.00	31589.00
477932.81	1379778.25	28847.00
477939.06	1379778.50	18293.00
477945.31	1379778.63	28179.00
477957.81	1379779.00	13899.00
477845.19	1379782.13	9420.00
477851.44	1379782.25	13825.00
477857.69	1379782.50	20558.00
477863.94	1379782.63	7605.00
477870.19	1379782.75	7783.00
477895.16	1379783.50	13240.00
477901.41	1379783.63	13044.00
477907.66	1379783.88	12097.00
477913.91	1379784.00	52174.00
477920.16	1379784.13	58824.00
477926.41	1379784.38	48398.00
477932.66	1379784.50	23488.00
477938.91	1379784.63	13423.00
477945.16	1379784.88	25001.00
477957.63	1379785.25	14268.00
477845.00	1379788.38	8983.00
477851.25	1379788.50	12073.00

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FEMP-OU02-6 FINAL
January 21, 1995TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
477857.50	1379788.75	20629.00
477863.75	1379788.88	9203.00
477870.00	1379783.00	13275.00
477644.91	1379789.13	4601.00
477895.00	1379789.75	10990.00
477901.25	1379789.88	22814.00
477907.50	1379790.13	27038.00
477913.75	1379790.25	47620.00
477919.97	1379790.38	54546.00
477694.91	1379790.50	4575.00
477926.22	1379790.63	67120.00
477932.47	1379790.75	20834.00
477938.72	1379790.88	15385.00
477944.97	1379791.13	21908.00
477957.47	1379791.50	9662.00
477744.88	1379791.88	4453.00
477794.84	1379793.25	4398.00
477844.84	1379794.63	4211.00
477844.84	1379794.63	8903.00
477851.09	1379794.75	9967.00
477857.34	1379795.00	8876.00
477863.59	1379795.13	8939.00
477869.84	1379795.25	10345.00
477876.09	1379795.50	11364.00
477882.31	1379795.63	12001.00
477888.56	1379795.88	10939.00
477894.81	1379796.00	5340.00
477894.81	1379796.00	11584.00
477901.06	1379796.13	17493.00
477907.31	1379796.38	39474.00
477913.56	1379796.50	38462.00
477919.81	1379796.63	44128.00
477926.06	1379796.88	46876.00
477932.31	1379797.00	20609.00
477938.56	1379797.13	15307.00
477944.81	1379797.38	7363.00
477944.81	1379797.38	17143.00
477869.66	1379801.50	10257.00
477875.91	1379801.75	11561.00
477882.16	1379801.88	11798.00
477888.41	1379802.00	12321.00
477894.66	1379802.25	10310.00
477900.91	1379802.38	11236.00
477907.16	1379802.63	13072.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477913.41	1379802.75	24292.00
477919.66	1379802.88	35295.00
477925.88	1379803.13	35295.00
477932.13	1379803	16506.00
477938.38	1379803.38	12821.00
477944.63	1379803.63	14493.00
477869.50	1379807.75	11268.00
477875.75	1379808.00	13637.00
477881.97	1379808.13	14029.00
477888.22	1379808.25	15790.00
477894.47	1379808.50	10990.00
477900.72	1379808.63	12998.00
477906.97	1379808.88	10222.00
477913.22	1379809.00	10564.00
477919.47	1379809.13	14926.00
477925.72	1379809.38	23810.00
477931.97	1379809.50	14060.00
477938.22	1379809.63	19777.00
477944.47	1379809.88	13825.00
477869.31	1379814.00	11091.00
477881.81	1379814.38	13545.00
477888.06	1379814.50	23347.00
477894.31	1379814.75	19355.00
477900.56	1379814.88	9688.00
477906.81	1379815.13	10085.00
477913.06	1379815.25	9231.00
477919.31	1379815.38	11300.00
477694.22	1379815.50	9105.00
477700.47	1379815.63	7773.00
477925.53	1379815.63	8808.00
477931.78	1379815.75	14182.00
477706.72	1379815.88	8979.00
477938.03	1379815.88	18376.00
477712.97	1379816.00	9434.00
477719.19	1379816.13	9688.00
477944.28	1379816.13	14320.00
477794.19	1379818.25	9967.00
477800.44	1379818.38	10034.00
477806.66	1379818.63	12932.00
477812.91	1379818.75	10564.00
477819.16	1379818.88	12372.00
477825.41	1379819.13	17911.00
477831.66	1379819.25	9161.00
477837.91	1379819.38	11674.00

TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
477844.16	1379819.63	9662.00
477850.41	1379819.75	9217.00
477856.66	1379820.00	10222.00
477862.91	1379820.13	13334.00
477869.16	1379820.25	11321.00
477875.41	1379820.50	11195.00
477881.66	1379820.63	11343.00
477887.88	1379820.75	14743.00
477894.13	1379821.00	12059.00
477900.38	1379821.13	11268.00
477906.63	1379821.38	10102.00
477912.88	1379821.50	8996.00
477919.13	1379821.63	19223.00
477925.38	1379821.88	11729.00
477931.63	1379822.00	8747.00
477937.88	1379822.13	8939.00
477712.78	1379822.25	10051.00
477719.03	1379822.38	9804.00
477037.53	1379822.50	8719.00
477794.00	1379824.50	16394.00
477800.25	1379824.63	15278.00
477806.50	1379824.88	16575.00
477812.75	1379825.00	27038.00
477819.00	1379825.13	34483.00
477825.25	1379825.38	33150.00
477831.50	1379825.50	22999.00
477837.75	1379825.63	20516.00
477844.00	1379825.88	8511.00
477850.22	1379826.00	8076.00
477856.47	1379826.25	9662.00
477862.72	1379826.38	11939.00
477868.97	1379826.50	15626.00
477875.22	1379826.75	12686.00
477881.47	1379826.88	19170.00
477887.72	1379827.00	10990.00
477893.97	1379827.25	10715.00
477900.22	1379827.38	9175.00
477906.47	1379827.63	10292.00
477912.72	1379827.75	9570.00
477918.97	1379827.88	23677.00
477925.22	1379828.13	12749.00
477931.44	1379828.25	9662.00
477937.69	1379828.25	12162.00
477943.94	1379828.63	16575.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477793.84	1379830.75	10292.00
477800.09	1379830.88	10696.00
477806.31	1379831.13	12296.00
477812.56	1379831.25	17442.00
477818.81	1379831.38	20906.00
477825.06	1379831.63	22557.00
477831.31	1379831.75	29279.00
477837.56	1379831.88	28302.00
477843.81	1379832.13	13987.00
477850.06	1379832.25	8451.00
477856.31	1379832.50	10409.00
477862.56	1379832.63	15759.00
477868.81	1379832.75	19803.00
477875.06	1379833.00	12932.00
477881.31	1379833.13	13393.00
477887.56	1379833.25	11174.00
477893.78	1379833.50	21583.00
477900.03	1379833.63	16760.00
477906.28	1379833.75	11561.00
477912.53	1379834.00	11236.00
477918.78	1379834.13	19428.00
477925.03	1379834.38	17046.00
477931.28	1379834.50	10102.00
477937.53	1379834.63	13453.00
477943.78	1379834.88	16575.00
477793.66	1379837.00	13762.00
477799.91	1379837.13	10583.00
477806.16	1379837.38	15239.00
477812.41	1379837.50	13575.00
477818.66	1379837.63	15790.00
477824.91	1379837.88	18529.00
477831.16	1379838.00	17095.00
477837.41	1379838.13	22901.00
477843.66	1379838.38	34091.00
477849.88	1379838.50	27650.00
477856.13	1379838.75	22738.00
477862.38	1379838.88	18998.00
477868.63	1379839.00	16043.00
477874.88	1379839.25	11473.00
477881.13	1379839.38	25752.00
477887.38	1379839.50	18073.00
477893.63	1379839.75	13364.00
477899.88	1379839.88	13334.00
477906.13	1379840.00	14670.00

TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
477912.38	1379840.25	23716.00
477918.63	1379840.38	11199.00
477924.88	1379840.63	9519.00
477931.13	1379840.75	9694.00
477937.34	1379840.88	14320.00
477943.59	1379841.13	17965.00
477793.50	1379843.25	4651.00
477793.50	1379843.25	9064.00
477799.75	1379843.38	14399.00
477806.00	1379843.63	14355.00
477812.22	1379843.75	12553.00
477818.47	1379843.88	19737.00
477824.72	1379844.13	15634.00
477837.22	1379844.38	17544.00
477843.47	1379844.63	16130.00
477843.47	1379844.63	9129.00
477849.72	1379844.75	37501.00
477855.97	1379845.00	25105.00
477862.22	1379845.13	19058.00
477868.47	1379845.25	13044.00
477874.72	1379845.50	18576.00
477880.97	1379845.63	17242.00
477887.22	1379845.75	13922.00
477893.47	1379846.00	16001.00
477893.47	1379846.00	7292.00
477899.69	1379846.13	14085.00
477905.94	1379846.25	20558.00
477912.19	1379846.50	23516.00
477918.44	1379846.63	13825.00
477924.69	1379846.88	11091.00
477930.94	1379847.00	10939.00
477937.19	1379847.13	13159.00
477943.44	1379847.38	9657.00
477943.44	1379847.38	21260.00
477793.31	1379849.50	12059.00
477805.81	1379849.88	8951.00
477812.06	1379850.00	10085.00
477818.31	1379850.13	16305.00
477824.56	1379850.38	15385.00
477830.81	1379850.50	16130.00
477837.06	1379850.63	15790.00
477843.31	1379850.88	17752.00
477849.56	1379851.00	20558.00
477855.78	1379851.13	22557.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477862.03	1379851.38	19428.00
477868.28	1379851.50	17392.00
477874.53	1379851.75	11765.00
477880.78	1379851.88	12821.00
477887.03	1379852.00	13423.00
477899.53	1379852.38	27788.00
477905.78	1379852.50	33150.00
477912.03	1379852.75	27523.00
477918.28	1379852.88	17008.00
477924.53	1379853.13	15239.00
477930.78	1379853.25	14088.00
477937.00	1379853.38	10597.00
477943.25	1379853.63	17143.00
477805.66	1379856.13	10205.00
477811.91	1379856.25	11674.00
477818.13	1379856.38	11429.00
477824.38	1379856.63	10773.00
477830.63	1379856.75	12146.00
477836.88	1379856.88	16359.00
477843.13	1379857.13	21829.00
477849.38	1379857.25	12876.00
477855.63	1379857.38	12669.00
477861.88	1379857.63	23347.00
477868.13	1379857.75	17965.00
477874.38	1379858.00	21506.00
477880.63	1379858.13	20340.00
477886.88	1379858.25	24692.00
477893.13	1379858.50	25317.00
477899.34	1379858.63	25221.00
477905.59	1379858.75	36364.00
477911.84	1379859.00	27918.00
477918.09	1379859.13	33970.00
477924.34	1379859.38	19618.00
477930.59	1379859.50	17143.00
477936.84	1379859.63	10792.00
477943.09	1379859.88	12699.00
477092.72	1379861.63	11584.00
477811.72	1379862.50	10435.00
477817.97	1379862.63	10490.00
477824.22	1379862.88	10085.00
477830.47	1379863.00	10959.00
477836.72	1379863.13	10187.00
477842.97	1379863.38	10518.00
477849.22	1379863.50	10959.00

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FEMP-OU02-6 FINAL
January 21, 1995TABLE F-15C
(Continued)

Coordinates		
North	East	Reading (CPM)
477855.47	1379863.63	17095.00
477861.69	1379863.88	22399.00
477867.94	1379864.00	12073.00
477874.19	1379864.25	14789.00
477880.44	1379864.38	20558.00
477886.69	1379864.50	21829.00
477892.94	1379864.75	24194.00
477899.19	1379864.88	30938.00
477905.44	1379865.00	36586.00
477911.69	1379865.25	43166.00
477917.94	1379865.38	38462.00
477924.19	1379865.63	22069.00
477930.44	1379865.75	12413.00
477936.69	1379865.88	14171.00
477942.91	1379866.13	9696.00
477836.53	1379869.38	10435.00
477842.78	1379869.63	9616.00
477849.03	1379869.75	12220.00
477855.28	1379869.88	10734.00
477861.53	1379870.13	11071.00
477867.78	1379870.25	11977.00
477874.03	1379870.50	16001.00
477880.28	1379870.63	21506.00
477886.53	1379870.75	17544.00
477892.78	1379871.00	23810.00
477899.03	1379871.13	30151.00
477905.25	1379871.25	35098.00
477911.50	1379871.50	44445.00
477917.75	1379871.63	38462.00
477924.00	1379871.75	31589.00
477930.25	1379872.00	18819.00
477936.50	1379872.13	25401.00
477942.75	1379872.38	11765.00
477867.59	1379876.50	14564.00
477873.84	1379876.75	10792.00
477880.09	1379876.88	11905.00
477886.34	1379877.00	16305.00
477892.59	1379877.25	18692.00
477898.84	1379877.38	20203.00
477905.09	1379877.50	28719.00
477911.34	1379877.75	24490.00
477917.59	1379877.88	28302.00
477923.84	1379878.00	26786.00
477930.09	1379878.25	23448.00

TABLE F-15C
(Continued)

Coordinates		Reading (CPM)
North	East	
477936.34	1379878.38	21266.00
477942.59	1379878.63	16305.00
477873.69	1379883.00	8619.00
477879.94	1379883.13	13606.00
477892.44	1379883.50	13637.00
477898.69	1379883.63	15759.00
477904.94	1379883.75	15152.00
477911.16	1379884.00	15425.00
477917.41	1379884.13	15968.00
477923.66	1379884.25	20558.00
477936.16	1379884.63	14852.00
477942.41	1379884.88	16575.00
477492.25	1379885.00	8003.00
477879.75	1379889.38	9260.00
477886.00	1379889.50	8011.00
477892.24	1379889.75	9088.00
477898.50	1379889.88	12527.00
477904.75	1379890.00	15152.00
477911.00	1379890.25	13453.00
477917.25	1379890.38	15790.00
477923.50	1379890.50	13825.00
477929.75	1379890.75	13987.00
477936.00	1379890.88	10959.00
477892.09	1379896.00	9570.00
477898.34	1379896.13	9951.00
477904.59	1379896.25	9928.00
477910.84	1379896.50	12245.00
477917.06	1379896.63	9740.00
477923.31	1379896.75	13334.00
477929.56	1379897.00	11765.00
477004.06	1379902.88	11145.00

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TABLE F-15D
SOUTH FIELD
CIS EXPOSURE RATE MEASUREMENTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Coordinates		Reading (microR/HR)
North	East	
477804.44	1379443.38	12.00
477898.94	1379646.00	12.00
477804.44	1379443.38	13.69
477898.94	1379646.00	14.25
477909.88	1379246.25	14.44
477510.03	1379235.25	14.02
477310.09	1379229.75	14.48
477904.41	1379446.13	14.08
477704.47	1379440.63	14.06
477699.00	1379640.63	14.02
477499.06	1379635.13	13.94
477299.16	1379629.63	13.90
477099.22	1379624.13	13.74
477893.47	1379846.00	15.66
477693.53	1379840.50	13.94

TABLE F-15E
SOUTH FIELD
CIS BETA GAMMA DOSE RATE MEASUREMENTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Coordinates		Reading (mRAD/HR)
North	East	
478001.63	1379548.88	0.04
477951.66	1379547.50	0.08
477901.66	1379546.13	0.05
477851.69	1379544.75	0.04
477801.69	1379543.38	0.03
477751.72	1379542.00	0.04
478000.25	1379598.75	0.07
477950.28	1379597.38	0.04
477900.28	1379596.00	0.03
477850.31	1379594.75	0.03
477800.34	1379593.38	0.04
477750.34	1379592.00	0.04
477998.88	1379648.75	0.06
477948.91	1379647.38	0.04
477898.94	1379646.00	0.05
477848.94	1379644.63	0.05
477546.31	1379736.38	0.03
477496.34	1379735.00	0.03
477694.91	1379790.50	0.03
477644.91	1379789.13	0.03
478057.06	1379350.25	0.04
478007.09	1379348.88	0.03
477957.13	1379347.50	0.04
477907.13	1379346.13	0.04
477857.16	1379344.75	0.04
477807.16	1379343.38	0.04
478055.72	1379400.25	0.03
478005.72	1379398.88	0.04
477955.75	1379397.50	0.03
477905.75	1379396.13	0.04
477855.78	1379394.75	0.03
477805.81	1379393.38	0.04
477755.81	1379392.00	0.03
478054.34	1379450.25	0.03
478004.38	1379448.88	0.04
477954.38	1379447.50	0.04
477904.41	1379446.13	0.03

TABLE F-15E
(Continued)

Coordinates		Reading (mRAD/HR)
North	East	
477854.41	1379444.75	0.02
477804.44	1379443.38	0.04
477754.44	1379442.00	0.03
478052.97	1379500.25	0.05
478003.00	1379498.88	0.05
477953.00	1379497.50	0.07
477903.03	1379496.13	0.03
477853.06	1379494.75	0.02
477803.06	1379493.38	0.04
477753.09	1379492.00	0.04
478162.50	1379153.13	0.04
477798.97	1379643.25	0.04
477748.97	1379641.88	0.03
477947.53	1379697.38	0.04
477897.56	1379696.00	0.03
477847.56	1379694.63	0.04
477797.59	1379693.25	0.03
477747.63	1379691.88	0.03
477946.16	1379747.38	0.04
477896.19	1379746.00	0.02
477846.22	1379744.63	0.03
477796.22	1379743.25	0.04
477746.25	1379741.88	0.03
477944.81	1379797.38	0.04
477894.81	1379796.00	0.04
477844.84	1379794.63	0.03
477794.84	1379793.25	0.03
477744.88	1379791.88	0.04
477893.47	1379864.00	0.04
477843.47	1379844.63	0.05
477793.50	1379843.25	0.03
477701.75	1379540.63	0.03
477651.75	1379539.25	0.04
477601.78	1379537.88	0.03
477551.78	1379536.50	0.04
477501.81	1379535.13	0.02
477451.84	1379533.75	0.03
477401.84	1379532.38	0.05
477351.88	1379531.00	0.04
477301.88	1379529.63	0.04
477251.91	1379528.25	0.04

TABLE F-15E
(Continued)

Coordinates		Reading (mRAD/Hr)
North	East	
477700.38	1379590.63	0.03
477650.38	1379589.25	0.03
477600.41	1379587.88	0.03
477550.44	1379586.50	0.03
477500.44	1379585.13	0.02
477450.47	1379583.75	0.04
477400.47	1379582.38	0.04
477350.50	1379581.00	0.04
477300.53	1379579.63	0.03
477250.53	1379578.25	0.03
477699.00	1379640.63	0.03
477649.03	1379639.25	0.03
477599.03	1379637.88	0.03
477549.06	1379636.50	0.04
477499.06	1379635.13	0.02
477449.09	1379633.75	0.03
477399.13	1379632.38	0.04
477349.13	1379631.00	0.03
477299.16	1379629.63	0.03
477697.63	1379690.50	0.03
477647.66	1379689.13	0.03
477597.66	1379687.88	0.02
477547.69	1379686.50	0.02
477497.72	1379685.13	0.02
477447.72	1379683.75	0.03
477397.75	1379682.38	0.04
477347.75	1379681.00	0.03
477696.25	1379740.50	0.04
477646.28	1379739.13	0.03
477596.31	1379737.75	0.03
478112.53	1379151.75	0.03
478062.56	1379150.38	0.05
478012.56	1379149.00	0.12
477962.59	1379147.63	0.04
478111.16	1379201.63	0.04
478061.19	1379200.38	0.04
478011.19	1379199.00	0.06
477961.22	1379197.63	0.04
478109.78	1379251.63	0.09
478059.81	1379250.25	0.04
478009.84	1379248.88	0.03

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TABLE F-15E
(Continued)

Coordinates		Reading (mRAD/HR)
North	East	
477959.84	1379247.50	0.04
478058.44	1379300.25	0.03
478008.47	1379298.88	0.08
477958.47	1379297.50	0.03
477210.13	1379227.00	0.03
477160.16	1379225.63	0.04
477110.16	1379224.25	0.02
477208.75	1379277.00	0.03
477158.78	1379275.63	0.03
477108.81	1379274.25	0.03
477207.41	1379327.00	0.03
477157.41	1379325.63	0.03
477107.44	1379324.25	0.03
477206.03	1379377.00	0.04
477156.03	1379375.63	0.03
477106.06	1379374.25	0.04
477204.66	1379427.00	0.03
477154.69	1379425.63	0.03
477104.69	1379424.25	0.03
477203.28	1379477.00	0.04
477153.31	1379475.63	0.03
477103.34	1379474.25	0.04
477201.94	1379526.88	0.03
477151.94	1379525.50	0.03
477101.97	1379524.25	0.03
477200.56	1379576.88	0.03
477150.56	1379575.50	0.02
477100.59	1379574.13	0.04
477199.19	1379626.88	0.05
477149.22	1379625.50	0.04
477099.22	1379624.13	0.05
477197.81	1379676.88	0.03
477147.84	1379675.50	0.03
477097.84	1379674.13	0.02
477704.47	1379440.63	0.04
477654.50	1379439.25	0.04
477604.50	1379437.88	0.04
477554.53	1379436.50	0.02
477504.53	1379435.13	0.03
477454.56	1379433.75	0.03
477404.59	1379432.38	0.04

TABLE F-15E
(Continued)

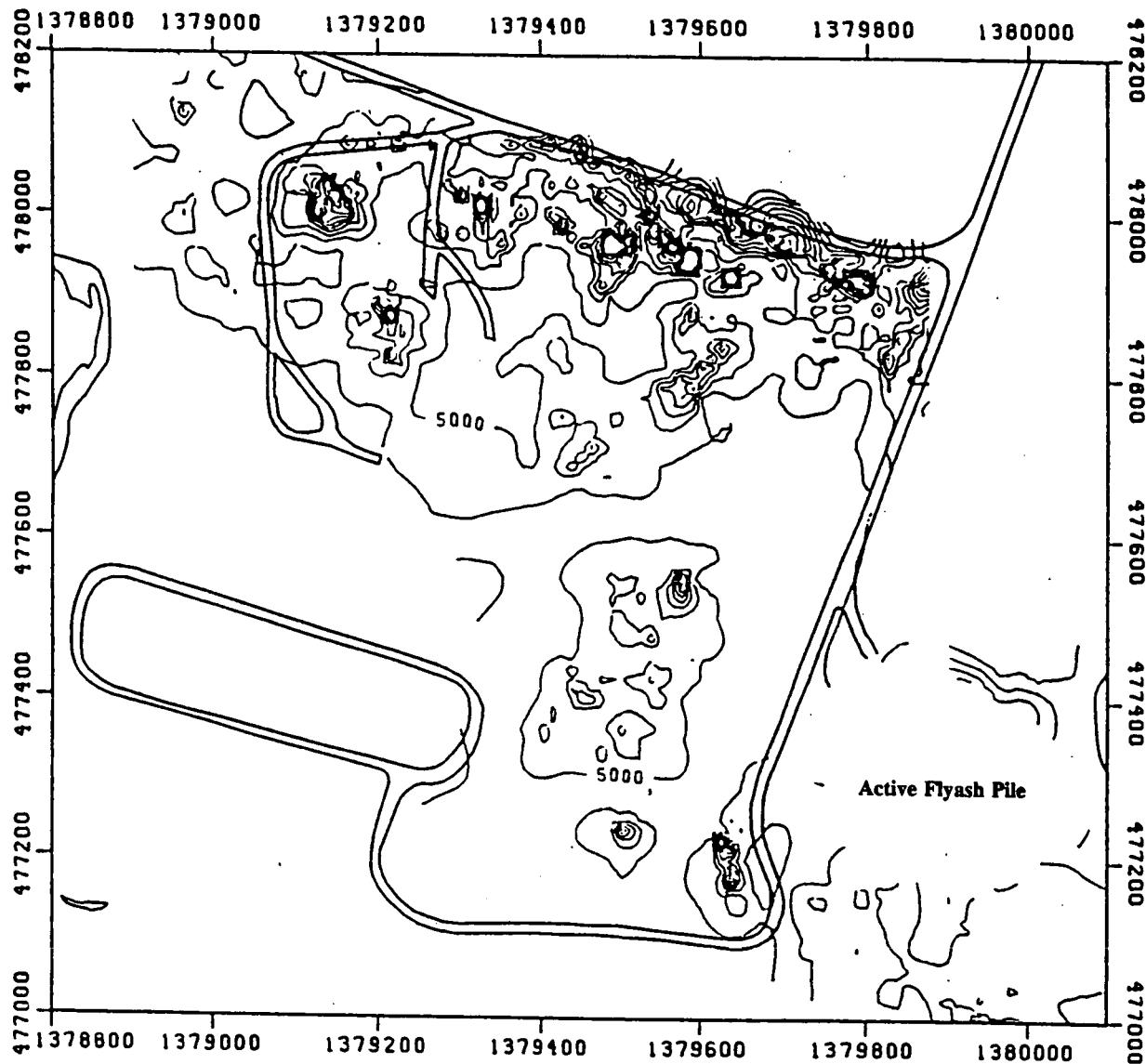
Coordinates		Reading (mRAD/HR)
North	East	
477354.59	1379431.13	0.03
477304.63	1379429.75	0.03
477254.63	1379428.38	0.04
477703.09	1379490.63	0.03
477653.13	1379489.25	0.03
477603.16	1379487.88	0.03
477553.16	1379486.50	0.03
477503.19	1379485.13	0.04
477453.19	1379483.75	0.03
477403.22	1379482.38	0.04
477353.25	1379481.00	0.03
477303.25	1379479.63	0.03
477253.28	1379478.38	0.05
477919.44	1378896.38	0.04
477912.59	1379146.25	0.03
477862.63	1379144.88	0.04
477812.66	1379143.50	0.03
477762.66	1379142.13	0.03
477712.69	1379140.75	0.03
477911.25	1379196.25	0.04
477861.25	1379194.88	0.04
477811.28	1379193.50	0.03
477761.28	1379192.13	0.03
477711.31	1379190.75	0.04
477909.88	1379246.25	0.03
477859.88	1379244.88	0.03
477809.91	1379243.50	0.03
477759.94	1379242.13	0.03
477908.50	1379296.13	0.03
477858.53	1379294.75	0.02
477808.53	1379293.38	0.03
477758.56	1379292.13	0.03
477249.16	1379628.25	0.03
477709.94	1379240.75	0.03
477659.97	1379239.38	0.04
477609.97	1379238.00	0.03
477708.56	1379290.75	0.04
477608.63	1379288.00	0.03
477308.72	1379297.75	0.04
477258.75	1379278.38	0.03
477707.22	1379340.63	0.04

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FEMP-OU02-6 FINAL
January 21, 1995TABLE F-15E
(Continued)

Coordinates		
North	East	Reading (mRAD/HR)
477657.22	1379339.38	0.04
477607.25	1379338.00	0.03
477557.25	1379336.63	0.04
477507.28	1379335.25	0.03
477407.31	1379332.50	0.03
477357.34	1379331.13	0.03
477307.34	1379329.75	0.03
477257.38	1379328.38	0.03
477705.84	1379390.63	0.04
477655.84	1379389.25	0.05
477605.88	1379387.88	0.04
477555.91	1379386.50	0.03
477505.91	1379385.25	0.03
477455.94	1379383.88	0.03
477405.94	1379382.50	0.03
477355.97	1379381.13	0.05
477306.00	1379379.75	0.03
477256.00	1379378.38	0.03

FIGURE F-15A
CIS FIDLER MEASUREMENT CONTOURS



STATE PLANE COORDINATE SYSTEM



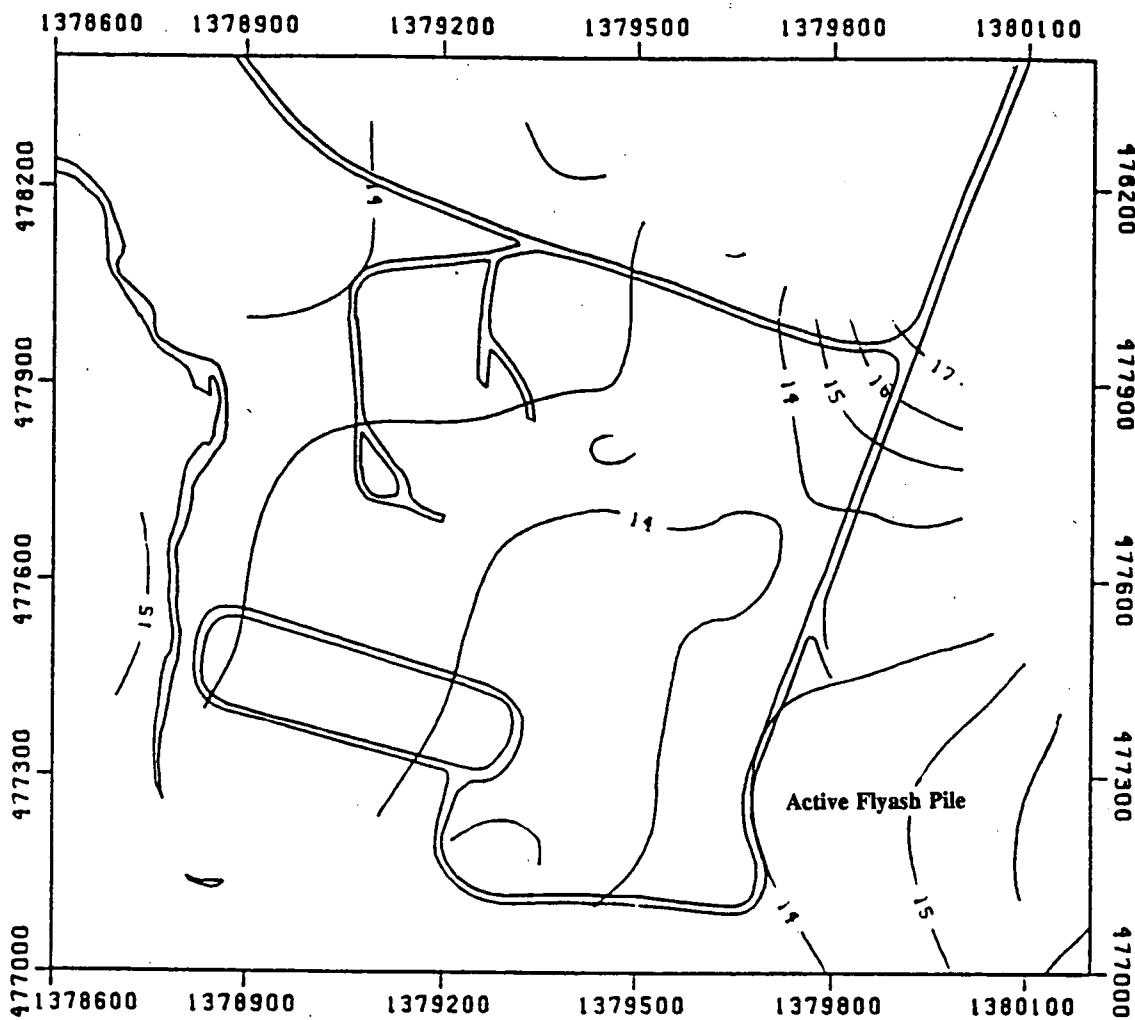
OHIO SOUTH ZONE

1 INCH = 225 FEET

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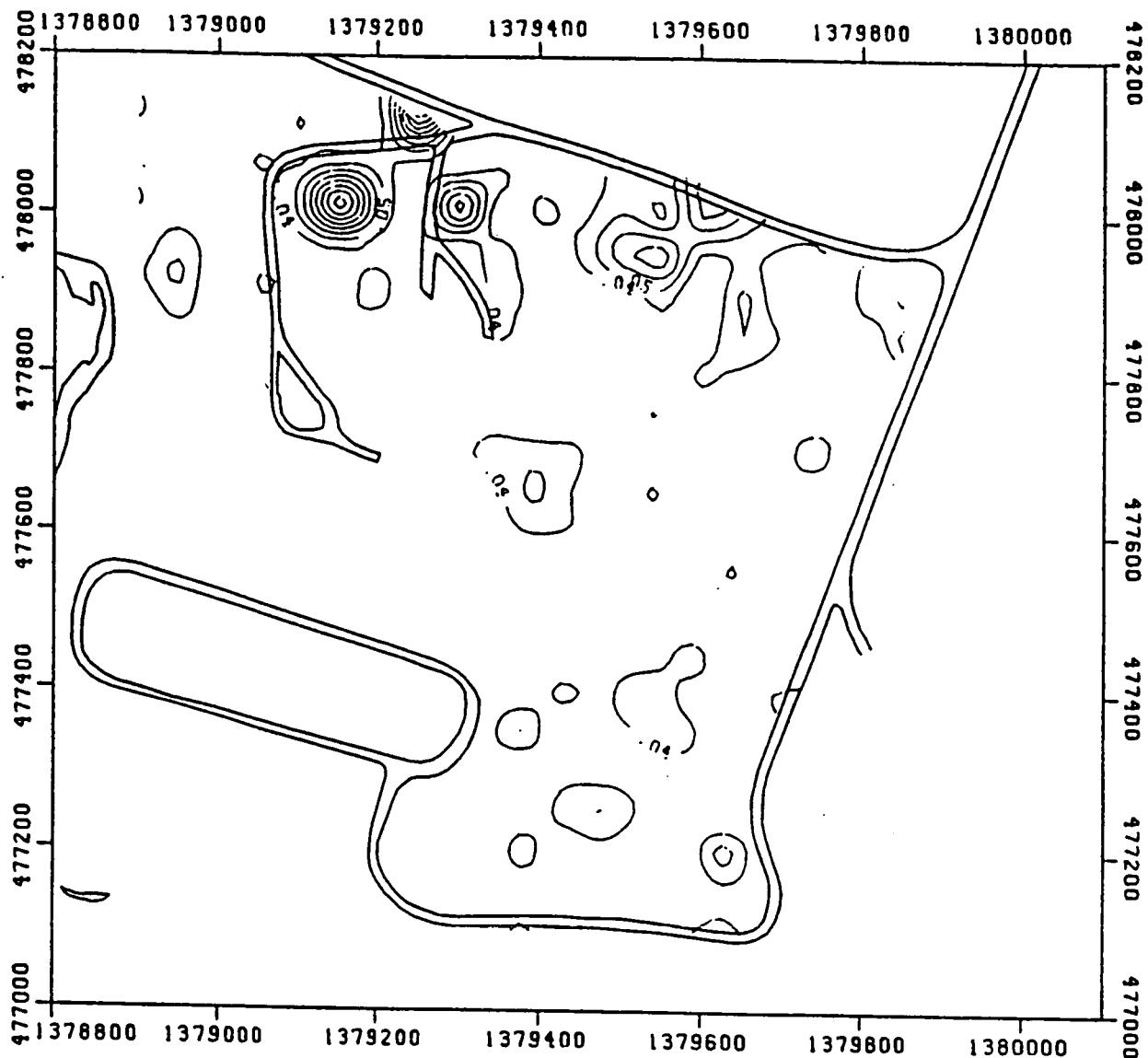
FEMP-OU02-6 FINAL
January 21, 1995

FIGURE F-15B
CIS EXPOSURE RATE CONTOURS



STATE PLANE
COORDINATE SYSTEM
OHIO SOUTH ZONE
1 INCH = 300 FEET

FIGURE F-15C
CIS BETA GAMMA DOSE RATE CONTOURS



(mRad/hr) CONTOUR INTERVAL IS .01 mRad/hr

STATE PLANE COORDINATE SYSTEM



8H10 SOUTH ZONE

1 INCH = 225 FEET

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TABLE F-16

WADDOES

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FEMP-OU02-6 FINAL
January 21, 1995

TABLE F-16A
**SOUTH FIELD
GEOTECHNICAL ANALYSIS
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT**

SURFACE SAMPLES

Location	Wet Density (pcf) ^a	Dry Density (pcf)	Moisture Content (%)
#6	111.0	110.2	10.7
#7	103.7	95.6	8.5
#8	107.6	94.9	13.4

^apounds per cubic foot

TABLE F-16B
SOUTH FIELD
GEOTECHNICAL ANALYSIS
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Location	Sample No.	Date Sampled	Sample Interval (ft) ^a	Specific Gravity	Moisture Content (%)	Bulk Density Unit Weight (pcf) ^b	Dry Density (pcf)	Atterberg Limits			Permeability (cm/s) ^c
								Liquid Limit	Plastic Limit	Plasticity Index	
1964	112647	4/17/93	3.0-5.0	2.6858	15.5	- ^d	-	36	16	20	-
	112671	4/17/93	20.0-22.0	2.6949	3.7	-	-	16	11	5	-
1965	112735	4/20/93	0.0-2.0	2.7064	19.9	-	-	31	16	15	-
	112736	4/20/93	2.0-4.0	-	-	136.6	117.5	-	-	-	-
	112761	4/21/93	22.5-24.5	2.7189	19.3	-	-	30	14	16	-
	112762	4/21/93	24.5-26.5	-	-	133.7	124.9	-	-	-	-
1966	112858	4/21/93	2.5-4.5	2.7109	16.7	-	-	37	17	20	-
	112860	4/21/93	6.5-8.5	-	-	130.7	107.6	-	-	-	-
	112867	4/21/93	11.5-13.0	2.7557	21.8	-	-	35	15	20	-
	112868	4/21/93	13.0-15.0	-	-	130.4	109.6	-	-	-	-
1968	112833	4/20/93	1.0-3.0	-	-	117.8	102.5	-	-	-	-
	112834	4/20/93	3.0-4.5	-	-	-	-	28	18	10	-
1969	112557	4/15/93	2.0-4.0	2.7553	23.2	-	-	37	18	19	-
	112562	4/15/93	7.0-9.0	2.7571	30.6	-	-	31	17	14	-
	112564	4/15/93	10.5-12.0	2.6951	16.6	-	-	NP ^e	NP	NP	-
	112565	4/15/93	12.0-13.5	-	-	143.6	128.1	-	-	-	-

See footnotes at end of table

TABLE F-16B
(Continued)

Location	Sample No.	Date Sampled	Sample Interval (ft) ^a	Specific Gravity	Moisture Content (%)	Bulk Density Unit Weight (pcf) ^b	Dry Density (pcf)	Atterberg Limits			Permeability (cm/s) ^c
								Liquid Limit	Plastic Limit	Plasticity Index	
1970	112688	4/18/93	0.0-2.0	-	-	135.7	115.3	-	-	-	-
	112691	4/18/93	5.0-7.0	2.7278	16.9	-	-	34	19	15	-
	112892	4/18/93	7.0-9.0	-	-	123.2	101.6	-	-	-	3.7E ⁻⁸
1974	112518	4/13/93	0.0-2.0	-	-	126.1	106.8	-	-	-	-
	112519	4/13/93	2.0-4.0	2.7018	16.3	-	-	29	17	12	-
1975	112544	4/13/93	2.0-4.0	2.7073	20.8	-	-	34	16	18	-
	112546	4/15/93	5.0-7.0	-	-	122.2	96.9	-	-	-	-
1977	110568	4/6/93	3.0-5.0	-	-	139.0	122.9	-	-	-	-
	110569	4/6/93	5.0-8.0	2.7500	22.9	-	-	38	15	23	-
	110575	4/7/93	11.5-13.5	2.7534	25.0	-	-	20	16	4	-
	110578	4/7/93	14.5-16.5	-	-	135.1	114.9	-	-	-	1.4E ⁻⁷
2945	110240	3/19/93	4.5-6.0	-	-	-	-	26	17	9	-
	110244	3/24/93	5.0-7.0	2.6935	17.5	-	-	-	-	-	-
	110253	3/29/93	25.0-27.0	2.7238	12.7	-	-	NP	NP	NP	-

^aThe sample interval is depth, in feet, below the ground surface

^bPounds per cubic foot

^cCentimeters per second

^dThe sample not analyzed for this parameter.

^eNP - Nonplastic

TABLE F-16C
SOUTH FIELD
SIEVE ANALYSIS - ASTM D 422
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Location	Sample No.	Date Sampled	Sample Interval (ft) ^a	Classification ^b	Sieve Analysis (% Passing Sieve No.)											
					3"	1.5"	0.75"	0.375"	#4	#10	#20	#40	#60	#100	#140	#200
SF-SD-02	112992	4/22/93	0.0-1.5	NA ^c	100	100	100	99.5	95.9	92.6	87.6	81.1	75.7	71.1	68.7	66.8
1964	112647	4/17/93	3.0-5.0	CL	100	100	98.0	97.0	95.3	92.3	89.3	86.0	82.3	78.9	77.0	75.5
	112671	4/17/93	20.0-22.0	CL-ML	100	100	100	97.3	91.7	76.0	63.4	47.6	30.2	21.5	19.1	17.8
1965	112735	4/20/93	0.0-2.0	CL	100	100	100	97.6	93.2	89.8	86.0	82.6	79.8	76.6	73.9	71.3
	112761	4/21/93	22.5-24.5	CL	100	100	100	97.1	95.8	93.5	89.9	84.5	77.9	71.9	68.4	66.0
1966	112858	4/21/93	2.5-4.5	CL	100	100	94.5	93.2	90.9	88.2	84.2	80.7	77.5	74.0	72.0	70.4
	112867	4/21/93	11.5-13.0	CL	100	100	100	100	99.1	97.2	94.2	91.8	89.5	87.0	85.3	83.9
1969	112557	4/15/93	2.0-4.0	CL	100	100	100	100	100	99.7	99.0	98.5	98.0	97.4	97.1	96.9
	112562	4/15/93	7.0-9.0	CL	100	100	100	100	99.9	99.5	99.4	99.1	98.9	98.6	98.5	98.3
	112564	4/15/93	10.5-12.0	NP	100	100	98.0	96.9	95.8	93.3	90.9	88.0	84.0	72.8	64.4	58.5
1970	112691	4/18/93	5.0-7.0	CL	100	100	89.5	82.9	79.2	75.9	72.1	68.0	64.7	61.3	58.6	56.7
1974	112519	4/13/93	2.0-4.0	CL	100	100	95.2	86.3	80.3	75.3	69.8	65.5	62.5	59.8	58.1	56.8
1975	112544	4/13/93	2.0-4.0	CL	100	100	98.6	92.4	89.3	86.0	82.7	78.1	74.8	72.0	70.4	69.1
1977	110569	4/6/93	5.0-8.0	CL	100	100	98.4	98.2	96.2	93.1	89.0	85.1	80.6	74.5	70.8	68.2
	110575	4/7/93	11.5-13.5	CL-ML	100	100	100	99.7	99.1	97.1	93.6	89.9	86.8	83.6	80.7	77.5
2945	110239	3/19/93	3.0-4.5	CL	100	100	100	97.2	88.3	83.1	77.6	73.5	71.1	69.2	67.9	66.9

See footnotes at end of table

TABLE F-16C
(Continued)

Location	Sample No.	Date Sampled	Sample Interval (ft) ^a	Classification ^b	Sieve Analysis (% Passing Sieve No.)											
					3"	1.5"	0.75"	0.375"	#4	#10	#20	#40	#60	#100	#140	#200
2945	110241	3/19/93	6.0-7.5	NA	100	100	100	94.0	82.7	73.9	65.7	59.1	54.8	51.4	49.4	47.8
	110253	3/29/93	25.0-27.0	NP	100	100	100	98.9	96.1	89.7	76.8	60.2	36.4	20.6	16.9	15.1

^aThe sample interval is depth, in feet, below the ground surface

^bUnified Soil Classification System (USCS)

ML = inorganic silts and very fine sands, rock flour, silty or clayey fine sands, or clayey silts with slight plasticity

CL = inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.

NP = nonplastic

^cNot applicable

F-165

050100

TABLE F-16D
SOUTH FIELD
HYDROMETER ANALYSIS - ASTM D 422
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

LOCATION: SF-SD-02 SAMPLE NO.: 112992 DEPTH: 0.0-0.5 ft.

Particle Diameter (mm)	0.05655	0.04066	0.03029	0.02231	0.01314	0.00934	0.00662	0.00477	0.00331	0.00142
Percent Finer	66.4	63.2	53.4	17.8	8.9	7.3	6.5	4.9	4.0	4.0

LOCATION: 1964 SAMPLE NO.: 112647 DEPTH: 3.0-5.0 ft.

Particle Diameter (mm)	0.05226	0.03842	0.02798	0.01837	0.01134	0.00834	0.00611	0.00450	0.00316	0.00135
Percent Finer	75.0	70.1	66.5	60.9	51.0	43.9	37.5	29.0	20.5	6.4

LOCATION: 1964 SAMPLE NO.: 112671 DEPTH: 20.0-22.0 ft.

Particle Diameter (mm)	0.05168	0.03868	0.02471	0.01426	0.01009	0.00713	0.00506	0.00342	0.00138
Percent Finer	15.1	4.1	2.3	2.3	2.3	2.3	1.2	1.2	0.0

LOCATION: 1965 SAMPLE NO.: 112735 DEPTH: 0.0-2.0 ft.

Particle Diameter (mm)	0.05540	0.04017	0.02894	0.01924	0.01210	0.00883	0.00627	0.00447	0.00316	0.00137
Percent Finer	68.4	63.5	60.2	50.3	30.5	22.2	18.1	15.7	13.2	9.9

TABLE F-16D
(Continued)

LOCATION: 1965 SAMPLE NO.: 112761 DEPTH: 22.5-24.5 ft.

Particle Diameter (mm)	0.05983	0.04324	0.03086	0.07988	0.01188	0.00862	0.00618	0.00443	0.00313	0.00136
Percent Finer	64.2	59.3	56.3	51.4	41.5	30.6	25.7	21.7	18.8	13.8

LOCATION: 1966 SAMPLE NO.: 112858 DEPTH: 2.5-4.5 ft.

Particle Diameter (mm)	0.03939	0.02840	0.01840	0.01132	0.00850	0.00628	0.00458	0.00322	0.00139
Percent Finer	65.2	61.2	57.2	44.5	27.8	16.7	11.1	7.9	4.0

LOCATION: 1966 SAMPLE NO.: 112867 DEPTH: 11.5-13.0 ft.

Particle Diameter (mm)	0.00878	0.00683	0.00528	0.00419	0.00318	0.00138
Percent Finer	50.7	42.0	32.4	18.8	3.9	1.4

LOCATION: 1969 SAMPLE NO.: 112557 DEPTH: 2.0-4.0 ft.

Particle Diameter (mm)	0.01628	0.01060	0.00833	0.00645	0.00473	0.00323	0.00133
Percent Finer	77.7	59.8	41.1	20.9	12.0	9.0	1.5

LOCATION: 1969 SAMPLE NO.: 112562 DEPTH: 7.0-9.0 ft.

Particle Diameter (mm)	0.00966	0.00770	0.00602	0.00448	0.00312	0.00132
Percent Finer	72.7	54.9	35.6	25.2	17.8	5.2

F-16-7

001052

TABLE F-16D
(Continued)

LOCATION: 1969 SAMPLE NO.: 112564 DEPTH: 10.5-12.0 ft.

Particle Diameter (mm)	0.06078	0.04570	0.03695	0.02430	0.01412	0.01005	0.00711	0.00496	0.00341	0.00137
Percent Finer	54.1	44.1	16.4	701	5.0	3.6	3.6	3.6	2.8	1.4

LOCATION: 1970 SAMPLE NO.: 112691 DEPTH: 5.0-7.0 ft.

Particle Diameter (mm)	0.05619	0.04070	0.02945	0.01944	0.01204	0.00887	0.00642	0.00452	0.00319	0.00132
Percent Finer	55.2	52.1	49.0	42.9	32.5	25.1	20.8	16.5	13.5	6.7

LOCATION: 11187 (1974) SAMPLE NO.: 112519 DEPTH: 2.0-4.0 ft.

Particle Diameter (mm)	0.05549	0.04046	0.02912	0.01934	0.01222	0.00901	0.00652	0.00453	0.00320	0.00132
Percent Finer	55.2	51.6	49.8	43.2	28.8	21.6	17.4	15.6	12.0	7.2

LOCATION: 1975 SAMPLE NO.: 112544 DEPTH: 2.0-4.0 ft.

Particle Diameter (mm)	0.05334	0.03849	0.02827	0.01862	0.01162	0.00853	0.00624	0.00447	0.00312	0.00130
Percent Finer	69.0	66.3	61.4	55.2	42.8	35.9	29.0	24.2	20.0	11.7

LOCATION: 1977 SAMPLE NO.: 110569 DEPTH: 5.0-8.0 ft.

Particle Diameter (mm)	0.05773	0.04128	0.02967	0.01960	0.01178	0.00859	0.00620	0.00435	0.00306	0.00126
Percent Finer	64.6	62.2	59.1	51.2	43.3	36.2	31.5	27.6	23.6	16.5

TABLE F-16D
(Continued)

LOCATION: 1977 SAMPLE NO.: 110575 DEPTH: 11.5-13.5 ft.

Particle Diameter (mm)	0.05185	0.03818	0.02895	0.02082	0.01286	0.00926	0.00660	0.00458	0.00319	0.00131
Percent Finer	73.9	68.8	58.7	35.5	21.0	16.7	14.5	13.0	10.9	6.5

LOCATION: 2945 SAMPLE NO.: 110239 DEPTH: 3.0-4.5 ft.

Particle Diameter (mm)	0.05494	0.03956	0.02831	0.01852	0.01236	0.00920	0.00665	0.00475	0.00329	0.00137
Percent Finer	64.4	61.5	60.1	54.4	30.0	18.6	13.6	11.4	8.6	2.9

LOCATION: 2945 SAMPLE NO.: 110241 DEPTH: 6.0-7.5 ft.

Particle Diameter (mm)	0.05595	0.04072	0.02959	0.01611	0.01241	0.00906	0.00651	0.00467	0.00323	0.00135
Percent Finer	47.1	43.8	40.5	29.0	22.4	17.5	14.2	12.0	9.9	5.5

LOCATION: 2945 SAMPLE NO.: 110253 DEPTH: 25.0-27.0 ft.

Particle Diameter (mm)	0.06827	0.04883	0.03524	0.02249	0.01321	0.00942	0.00672	0.00477	0.00330	0.00140
Percent Finer	13.7	11.8	8.7	7.3	4.6	3.2	1.8	1.4	1.4	0.9

F-16-9

002059

TABLE F-16E

SOUTH FIELD

ONE DIMENSIONAL CONSOLIDATION - ASTM D 2435

PHASE II FIELD INVESTIGATION

OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

LOCATION: 1965 SAMPLE NO.: 112762 DEPTH: 24.5-26.5 ft.

Applied Pressure (tsf) ^a	0.06	0.13	0.25	0.50	1.00	2.00	4.00	8.00	16.00	4.00	1.00	0.25
Void Ratio	0.3818	0.3769	0.3712	0.3520	0.3442	0.3193	0.2917	0.2629	0.2297	0.2366	0.2431	0.2495

LOCATION: 1970 SAMPLE NO.: 112689 DEPTH: 2.0-4.0 ft.

Applied Pressure (tsf)	0.13	0.25	0.50	1.00	2.00	4.00	8.00	16.00	8.00	4.00	2.00	1.00	0.50	0.25
Void Ratio	0.5510	0.5440	0.5313	0.5135	0.4736	0.4296	0.3810	0.3317	0.3371	0.3458	0.3574	0.3706	0.3830	0.3948

LOCATION: 1977 SAMPLE NO.: 110568 DEPTH: 3.0-5.0 ft.

Applied Pressure (tsf)	0.06	0.13	0.25	0.50	1.00	2.00	4.00	8.00	16.00	8.00	4.00	2.00	1.00	0.50	0.25
Void Ratio	0.3359	0.3341	0.3260	0.3140	0.3003	0.2817	0.2678	0.2497	0.2015	0.2034	0.2066	0.2104	0.2147	0.2192	0.2236

^aTons per square foot

TABLE F-17

WORKEO

TABLE F-17A
SOUTH FIELD
CIS GEOPHYSICAL ANALYSIS EM 31 MEASUREMENTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

North Coordinate	East Coordinate	MMHOS/M (Unit)	
		Horizontal Result	Vertical Result
477912.61	1379146.23	21.50	29.00
477962.59	1379147.59	23.00	19.00
477987.58	1379148.28	25.00	30.00
478012.57	1379148.97	23.00	30.00
478062.56	1379150.33	30.00	39.00
478082.55	1379150.88	26.50	29.00
478112.54	1379151.70	22.50	29.00
478111.17	1379201.69	18.00	24.00
478085.18	1379200.97	21.00	30.00
478061.19	1379200.31	24.00	31.00
478046.19	1379199.91	19.50	26.00
478011.21	1379198.95	21.50	28.00
477961.23	1379197.58	21.00	24.00
477911.24	1379196.22	20.00	19.00
477859.89	1379244.81	23.50	36.00
477909.87	1379246.19	22.00	12.00
477959.86	1379247.55	23.50	28.00
478009.84	1379248.92	22.50	28.00
478059.82	1379250.28	26.00	32.00
478079.81	1379250.83	20.00	25.00
478103.80	1379251.48	23.50	32.00
478109.80	1379251.66	22.00	27.00
478108.43	1379301.64	19.00	30.00
478078.44	1379300.81	23.00	37.00
478058.45	1379300.27	21.50	30.00
478008.47	1379298.91	23.50	32.00
477958.49	1379297.53	23.50	30.00
477908.50	1379296.17	13.00	22.00
477858.52	1379294.80	18.00	30.00
477807.18	1379343.42	17.50	24.50
477857.16	1379344.78	18.50	27.50
477907.14	1379346.16	23.00	34.00
477957.12	1379347.52	9.50	-100.00
478007.10	1379348.89	21.50	28.00
478057.08	1379350.25	18.50	27.00

TABLE F-17A
(Continued)

North Coordinate	East Coordinate	MMHOS/M (Unit)	
		Horizontal Result	Vertical Result
478055.71	1379400.23	21.50	29.00
478005.73	1379398.88	24.00	29.50
477955.75	1379397.50	19.00	45.00
477905.77	1379396.14	14.00	23.00
477855.79	1379394.77	26.00	-100.00
477805.81	1379393.41	28.00	-100.00
477795.81	1379393.13	20.00	54.00
477775.82	1379392.58	30.00	10.00
477755.83	1379392.03	24.00	10.50
477654.50	1379439.28	26.50	11.00
477694.48	1379440.38	61.00	30.00
477699.48	1379440.52	78.00	-100.00
477704.48	1379440.66	71.00	11.00
477714.48	1379440.92	40.00	41.00
477754.46	1379442.02	23.00	39.00
477764.46	1379442.30	24.00	22.00
477804.44	1379443.39	22.00	31.00
477854.42	1379444.75	17.00	26.00
477904.40	1379446.13	20.00	28.00
477954.39	1379447.48	25.00	36.00
478004.37	1379448.86	20.00	28.50
478054.35	1379450.22	22.00	31.00
478003.00	1379498.83	22.00	30.00
477953.02	1379497.45	17.00	22.00
477903.03	1379496.09	-100.00	62.00
477853.05	1379494.72	12.00	130.00
477803.07	1379493.36	27.50	33.00
477753.09	1379491.98	20.50	29.50
477703.11	1379490.63	26.50	31.00
477653.13	1379489.25	26.00	25.00
477628.14	1379488.56	30.00	27.00
477603.14	1379487.88	27.00	33.00
477578.16	1379487.20	24.00	23.00
477553.16	1379486.52	24.00	29.50
477503.18	1379485.14	26.00	29.50
477453.20	1379483.78	24.00	34.00
477413.21	1379482.69	26.50	33.00
477403.22	1379482.41	25.00	33.00

TABLE F-17A
(Continued)

North Coordinate	East Coordinate	MMHOS/M (Unit)	
		Horizontal Result	Vertical Result
477353.24	1379481.05	22.50	30.00
477304.63	1379429.70	20.00	29.00
477354.61	1379431.08	22.00	23.50
477389.60	1379432.03	27.00	6.50
477404.59	1379432.44	19.50	22.50
477401.85	1379532.39	21.00	26.50
477436.84	1379533.36	23.00	29.50
477451.84	1379533.77	18.00	27.00
477501.82	1379535.13	25.00	20.50
477551.80	1379536.50	19.00	25.00
477601.78	1379537.86	26.50	30.00
477651.76	1379539.23	23.00	32.00
477681.75	1379540.06	28.50	27.50
477701.74	1379540.61	27.00	34.00
477751.72	1379541.97	25.00	33.00
477801.70	1379543.34	18.00	25.00
477851.68	1379544.70	20.00	28.50
477866.68	1379545.11	16.00	-100.00
477886.67	1379545.66	25.00	30.00
477901.66	1379546.08	22.50	32.00
477951.65	1379547.44	17.00	29.00
478001.63	1379548.81	21.00	27.00
478000.26	1379598.80	24.00	30.00
477950.28	1379597.42	25.50	31.00
477940.29	1379597.16	22.00	-100.00
477900.30	1379596.06	19.00	30.00
477880.31	1379595.52	23.00	-100.00
477851.32	1379594.72	27.00	-100.00
477850.32	1379594.69	22.00	24.00
477825.33	1379594.00	20.00	30.00
477820.33	1379593.88	24.00	-100.00
477815.33	1379593.73	31.00	15.00
477812.33	1379593.66	31.00	-100.00
477810.33	1379593.59	33.00	-100.00
477800.34	1379593.33	27.00	38.00
477750.36	1379591.95	20.50	30.00
477700.38	1379590.59	23.00	31.00
477650.39	1379589.22	23.00	30.50

TABLE F-17A
(Continued)

North Coordinate	East Coordinate	MMHOS/M (Unit)	
		Horizontal Result	Vertical Result
477600.41	1379587.84	22.50	30.00
477550.43	1379586.48	18.00	27.00
477500.45	1379585.11	19.50	29.00
477450.47	1379583.75	20.00	29.00
477400.48	1379582.38	16.50	24.50
477350.50	1379581.02	20.00	28.50
477350.50	1379581.02	18.00	27.00
477349.14	1379631.00	18.00	22.00
477399.12	1379632.36	23.00	28.00
477449.10	1379633.73	27.00	30.00
477499.08	1379635.09	21.00	30.50
477549.06	1379636.47	26.00	41.00
477569.06	1379637.02	25.00	40.00
477574.06	1379637.16	23.00	20.50
477599.04	1379637.83	22.00	31.00
477399.12	1379632.36	23.00	28.00
477449.10	1379633.73	27.00	30.00
477499.08	1379635.09	21.00	30.50
477549.06	1379636.47	26.00	41.00
477569.06	1379637.02	25.00	40.00
477574.06	1379637.16	23.00	20.50
477599.04	1379637.83	22.00	31.00
477649.02	1379639.20	23.00	31.50
477699.01	1379640.58	20.50	30.00
477748.99	1379641.94	20.50	30.00
477798.97	1379643.31	20.50	30.00
477848.95	1379644.67	22.50	30.50
477898.93	1379646.05	21.00	30.00
477918.93	1379646.59	16.00	19.50
477938.92	1379647.14	20.00	38.00
477948.91	1379647.41	13.50	19.50
477958.91	1379647.69	24.00	38.00
477968.91	1379647.95	19.50	29.00
477998.89	1379648.78	24.50	30.50
477997.53	1379649.77	23.00	31.00
477947.55	1379697.39	25.00	31.00
477897.56	1379696.03	21.00	28.50
477847.58	1379694.66	22.50	31.00

TABLE F-17A
(Continued)

North Coordinate	East Coordinate	MMHOS/M (Unit)	
		Horizontal Result	Vertical Result
477797.60	1379693.30	24.00	31.50
477747.62	1379691.92	21.00	30.00
477697.64	1379690.56	22.50	30.50
477647.66	1379689.19	23.50	31.00
477597.68	1379687.81	24.00	31.00
477547.69	1379686.45	20.00	30.00
477497.71	1379685.08	19.50	28.00
477447.73	1379683.72	19.00	25.50
477397.75	1379682.34	18.00	18.00
477396.38	1379732.31	17.50	30.00
477546.32	1379736.42	23.00	30.00
477596.31	1379737.78	22.00	30.50
477646.29	1379739.16	24.50	34.00
477696.27	1379740.53	23.50	33.00
477746.25	1379741.89	23.00	33.00
477796.23	1379743.27	21.00	31.00
477846.21	1379744.63	23.00	29.50
477896.19	1379746.00	22.00	30.50
477946.18	1379747.36	22.00	28.50
477944.81	1379797.34	24.50	31.00
477894.82	1379795.98	22.00	34.00
477844.84	1379794.61	20.00	30.00
477794.86	1379793.25	24.00	35.00
477744.88	1379791.88	22.50	36.00
477694.90	1379790.52	25.00	36.00
477644.92	1379789.14	23.00	33.00
477793.50	1379843.23	22.50	34.00
477843.48	1379844.59	22.00	30.00
477893.46	1379845.97	24.00	34.00
477943.44	1379847.33	27.00	33.00
477371.02	1378831.30	3.50	7.00
477421.00	1378832.66	8.50	18.00
477429.00	1378832.88	13.00	17.00
477441.00	1378833.20	30.00	-100.00
477451.00	1378833.48	36.00	-100.00
477470.99	1378834.03	29.50	29.00
477485.98	1378834.44	17.50	29.50
477505.97	1378834.98	37.50	-100.00

TABLE F-17A
(Continued)

North Coordinate	East Coordinate	MMHOS/M (Unit)	
		Horizontal Result	Vertical Result
477519.97	1378835.38	30.00	-100.00
477520.97	1378835.39	26.00	-100.00
477550.96	1378836.22	4.30	8.00
477619.56	1378888.11	5.00	7.80
477569.58	1378886.75	8.20	11.00
477562.59	1378886.56	10.00	18.00
477555.59	1378886.36	10.00	-100.00
477549.59	1378886.20	10.00	-100.00
477544.59	1378886.06	10.00	21.00
477519.60	1378885.38	7.00	9.70
477469.62	1378884.02	6.80	10.00
477439.63	1378883.19	7.80	11.00
477419.64	1378882.64	10.00	19.00
477409.64	1378882.38	11.00	23.00
477404.64	1378882.23	12.50	-100.00
477398.64	1378882.06	12.00	-100.00
477393.65	1378881.94	12.00	22.00
477384.65	1378881.69	7.30	11.00
477368.29	1378931.27	7.50	11.00
477376.29	1378931.48	9.90	18.00
477383.29	1378931.67	10.00	-100.00
477381.29	1378931.61	11.00	-100.00
477418.27	1378932.63	10.50	13.00
477468.25	1378934.00	6.40	9.00
477512.23	1378935.20	6.30	8.30
477518.23	1378935.36	7.70	10.00
477528.23	1378935.64	10.50	20.00
477533.23	1378935.78	11.00	-100.00
477538.23	1378935.91	10.50	-100.00
477543.22	1378936.05	10.00	22.00
477603.20	1378937.69	5.60	7.40
477618.19	1378938.09	7.40	9.60
477616.82	1378988.06	4.20	6.20
477566.84	1378986.70	6.80	9.40
477536.86	1378985.88	11.00	20.50
477526.86	1378985.61	11.50	-100.00
477519.86	1378985.42	8.50	-100.00
477516.86	1378985.33	8.70	12.00

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FEMP-OU02-6 FINAL
January 21, 1995TABLE F-17A
(Continued)

North Coordinate	East Coordinate	MMHOS/M (Unit)	
		Horizontal Result	Vertical Result
477514.86	1378985.28	7.70	18.00
477473.88	1378984.16	6.00	7.00
477466.88	1378983.97	6.60	8.60
477416.90	1378982.59	7.50	11.00
477396.91	1378982.05	10.50	17.00
477386.91	1378981.78	12.50	13.00
477381.91	1378981.64	13.50	-100.00
477371.92	1378981.36	12.00	-100.00
477366.92	1378981.23	11.00	21.00
477345.56	1379030.67	9.40	12.50
477355.56	1379030.94	12.50	18.00
477361.56	1379031.11	12.00	-100.00
477365.55	1379031.22	12.00	-100.00
477368.55	1379031.30	12.00	-100.00
477380.55	1379031.63	9.80	18.00
477415.53	1379032.58	5.90	8.30
477465.52	1379033.95	4.50	6.50
477500.50	1379034.91	9.30	18.00
477505.50	1379035.05	11.00	-100.00
477514.50	1379035.30	12.00	-100.00
477515.50	1379035.31	11.50	5.80
477520.49	1379035.45	11.00	20.50
477565.48	1379036.69	7.70	9.00
477615.46	1379038.05	6.80	9.00
477640.45	1379038.73	10.50	12.50
477614.09	1379088.03	11.00	11.00
477564.11	1379086.67	9.70	11.00
477514.13	1379085.30	7.80	12.50
477464.15	1379083.94	4.10	5.80
477414.16	1379082.56	3.60	4.80
477364.18	1379081.20	8.60	14.00
477312.84	1379129.81	6.60	11.00
477327.83	1379130.22	9.20	18.00
477332.83	1379130.36	10.00	-100.00
477342.82	1379130.64	10.50	-100.00
477347.82	1379130.77	8.70	14.50
477362.82	1379131.19	5.30	8.60
477412.80	1379132.55	4.00	5.40

TABLE F-17A
(Continued)

North Coordinate	East Coordinate	MMHOS/M (Unit)	
		Horizontal Result	Vertical Result
477462.78	1379133.92	6.30	9.70
477472.78	1379134.19	9.30	17.50
477477.77	1379134.33	9.90	-100.00
477482.77	1379134.47	12.00	-100.00
477487.77	1379134.61	10.50	18.50
477512.76	1379135.28	8.60	11.50
477562.74	1379136.66	9.30	13.00
477612.72	1379138.02	23.00	28.00
477627.72	1379138.44	19.50	3.50
477630.72	1379138.52	19.50	11.00
477614.18	1379158.06	1.0E30	1.0E30
477614.04	1379163.06	1.0E30	1.0E30
477611.36	1379188.00	24.00	24.00
477604.36	1379187.81	30.00	31.00
477591.36	1379187.45	30.00	15.00
477586.37	1379187.33	27.00	24.00
477571.37	1379186.91	15.00	15.50
477561.38	1379186.64	11.00	17.00
477511.39	1379185.27	9.60	13.00
477461.41	1379183.91	10.00	-100.00
477411.43	1379182.53	5.20	8.00
477361.45	1379181.17	9.50	12.00
477311.47	1379179.80	14.50	33.00
477260.12	1379228.41	7.50	8.40
477300.10	1379229.50	11.50	18.50
477306.10	1379229.66	12.50	-100.00
477310.10	1379229.77	10.50	-100.00
477314.10	1379229.88	10.00	-100.00
477320.09	1379230.05	10.00	27.50
477360.08	1379231.14	8.30	10.50
477410.06	1379232.50	6.00	8.30
477478.04	1379234.36	9.50	19.00
477472.04	1379234.20	10.00	-100.00
477466.04	1379234.03	12.00	-100.00
477460.04	1379233.88	11.50	19.50
477510.02	1379235.23	9.70	12.50
477560.00	1379236.61	10.00	13.00
477602.99	1379237.78	15.00	13.00

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January 21, 1995TABLE F-17A
(Continued)

North Coordinate	East Coordinate	MMHOS/M (Unit)	
		Horizontal Result	Vertical Result
477609.98	1379237.97	17.00	24.50
477608.62	1379287.95	13.50	21.00
477558.64	1379286.59	10.00	13.00
477508.66	1379285.22	11.00	14.00
477458.68	1379283.86	9.20	13.00
477408.69	1379282.48	8.00	11.00
477358.71	1379281.13	7.50	10.00
477308.73	1379279.75	14.00	-100.00
477303.73	1379279.61	16.00	28.00
477293.73	1379279.34	12.00	16.00
477358.71	1379281.13	10.50	20.50
477382.34	1379331.78	10.50	25.00
477407.32	1379332.47	10.50	17.50
477457.31	1379333.84	10.00	13.00
477507.29	1379335.20	11.50	16.00
477557.27	1379336.58	19.00	18.00
477605.88	1379387.92	15.00	21.00
477455.94	1379383.83	2.90	6.30

TABLE F-17B
SOUTH FIELD
CIS GEOPHYSICAL ANALYSIS EM 34-3 MEASUREMENTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

North Coordinate	East Coordinate	MMHOS/M (Unit)	
		Horizontal Result	Vertical Result
477954.39	1379447.48	25.00	14.50
478112.54	1379151.70	24.00	13.00
478111.17	1379201.69	20.00	16.50
478109.80	1379251.66	19.00	16.00
478051.61	1379550.17	25.00	14.00
478052.98	1379500.19	23.00	15.00
478054.35	1379450.22	23.00	16.00
478055.71	1379400.23	22.50	17.00
478057.08	1379350.25	24.00	16.00
478058.45	1379300.27	25.00	16.00
478059.82	1379250.28	23.50	18.00
478061.19	1379200.31	20.00	20.00
478062.56	1379150.33	23.00	14.00
478012.57	1379148.97	23.00	15.00
478011.21	1379198.95	26.00	13.50
478009.84	1379248.92	24.00	17.00
478008.47	1379298.91	27.00	14.00
478007.10	1379348.89	24.00	18.00
478005.73	1379398.88	21.00	15.00
478004.37	1379448.86	23.00	9.00
478003.00	1379498.83	25.00	14.50
478001.63	1379548.81	25.00	15.00
478000.26	1379598.80	25.50	17.50
477998.89	1379648.78	27.00	12.50
477996.16	1379748.73	26.50	14.50
477946.18	1379747.36	25.00	21.00
477947.55	1379697.39	26.00	12.00
477948.91	1379647.41	26.00	15.00
477950.28	1379597.42	25.00	19.00
477951.65	1379547.44	21.50	19.00
477953.02	1379497.45	23.00	15.00
477954.39	1379447.48	25.00	14.50
477955.75	1379397.50	23.00	14.00
477957.12	1379347.52	24.50	12.50
477958.49	1379297.53	26.00	14.50
477959.86	1379247.55	24.00	15.00
477961.23	1379197.58	21.50	15.00

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FEMP-OU02-6 FINAL
January 21, 1995TABLE F-17B
(Continued)

North Coordinate	East Coordinate	MMHOS/M (Unit)	
		Horizontal Result	Vertical Result
477962.59	1379147.59	23.00	18.00
477912.61	1379146.23	27.00	22.50
477911.24	1379196.22	19.00	21.00
477909.87	1379246.19	24.00	14.00
477908.50	1379296.17	24.00	18.50
477907.14	1379346.16	22.50	15.00
477905.77	1379396.14	22.00	17.50
477904.40	1379446.13	23.00	25.00
477903.03	1379496.09	22.00	20.00
477901.66	1379546.08	23.00	17.00
477900.30	1379596.06	24.50	14.50
477898.93	1379646.05	21.50	12.00
477897.56	1379696.03	24.50	14.00
477896.19	1379746.00	25.00	15.00
477894.82	1379795.98	26.50	34.00
477893.46	1379845.97	27.00	12.00
477843.48	1379844.59	25.00	18.00
477844.84	1379794.61	26.00	15.00
477846.21	1379744.63	25.00	18.00
477847.58	1379694.66	25.50	17.50
477848.95	1379644.67	25.00	15.50
477850.32	1379594.69	24.00	18.00
477851.68	1379544.70	23.00	13.00
477853.05	1379494.72	23.50	34.00
477854.42	1379444.75	22.50	18.50
477855.79	1379394.77	24.00	21.00
477857.16	1379344.78	21.50	15.00
477858.52	1379294.80	20.00	12.00
477859.89	1379244.81	21.00	15.50
477861.26	1379194.84	26.00	16.00
477862.63	1379144.86	44.00	47.00
477809.91	1379243.45	19.50	6.00
477808.54	1379293.44	23.00	20.50
477807.18	1379343.42	23.00	13.00
477805.81	1379393.41	20.00	27.00
477804.44	1379443.39	25.00	17.00
477803.07	1379493.36	24.00	14.00
477801.70	1379543.34	22.00	19.00
477800.34	1379593.33	26.00	26.00
477798.97	1379643.31	24.50	21.00
477797.60	1379693.30	27.00	12.50

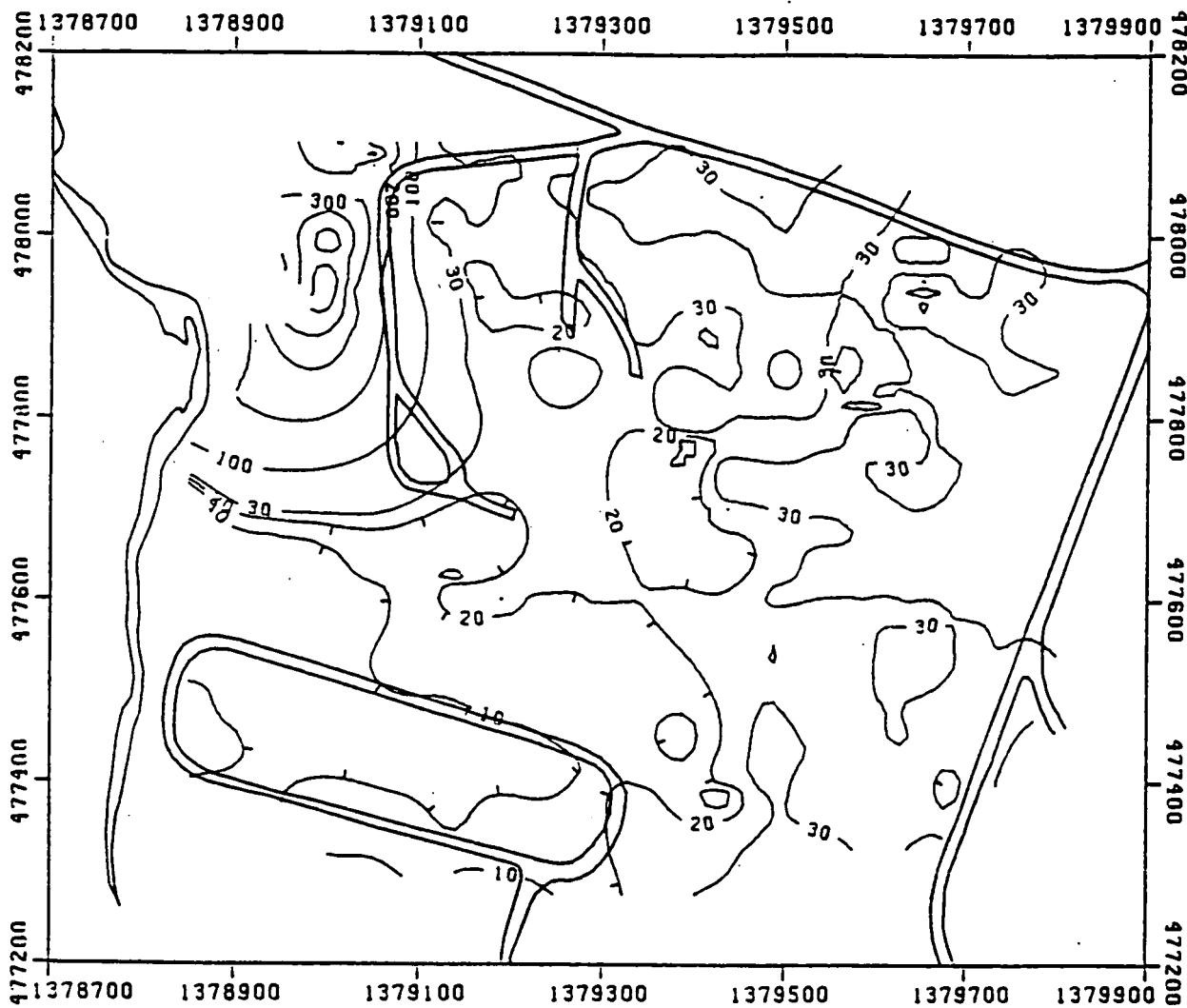
TABLE F-17B
(Continued)

North Coordinate	East Coordinate	MMHOS/M (Unit)	
		Horizontal Result	Vertical Result
477796.23	1379743.27	26.00	18.00
477794.86	1379793.25	27.00	16.00
477793.50	1379843.23	26.50	19.00
477743.52	1379841.86	27.00	17.00
477744.88	1379791.88	30.00	16.50
477746.25	1379741.89	27.00	15.00
477747.62	1379691.92	25.00	21.00
477748.99	1379641.94	24.50	15.00
477750.36	1379591.95	24.00	19.00
477751.72	1379541.97	25.00	15.00
477753.09	1379491.98	23.00	15.00
477754.46	1379442.02	26.00	12.00
477704.48	1379440.66	30.00	-100.00
477703.11	1379490.63	23.50	16.00
477701.74	1379540.61	26.00	19.00
477700.38	1379590.59	26.00	17.50
477699.01	1379640.58	24.00	18.00
477697.64	1379690.56	26.00	16.00
477696.27	1379740.53	27.00	15.00
477694.90	1379790.52	28.00	18.00
477644.92	1379789.14	26.50	17.50
477646.29	1379739.16	26.50	13.00
477647.66	1379689.19	26.50	14.00
477649.02	1379639.20	25.50	16.50
477650.39	1379589.22	24.50	17.00
477651.76	1379539.23	25.00	16.00
477653.13	1379489.25	25.00	14.00
477603.14	1379487.88	22.00	15.00
477601.78	1379537.86	22.50	12.00
477600.41	1379587.84	26.00	14.50
477599.04	1379637.83	24.50	17.50
477597.68	1379687.81	26.00	16.00
477596.31	1379737.78	24.00	14.00
477499.08	1379635.09	24.00	14.50
477501.82	1379535.13	24.00	19.50
477401.85	1379532.39	21.50	15.00
477399.12	1379632.36	22.00	9.50
477301.89	1379529.66	27.00	19.00
477199.19	1379626.89	21.00	19.50
477099.23	1379624.16	8.50	7.00
477310.10	1379229.77	67.00	35.00

TABLE F-17B
(Continued)

North Coordinate	East Coordinate	MMHOS/M (Unit)	
		Horizontal Result	Vertical Result
477407.32	1379332.47	15.00	16.50
477410.06	1379232.50	8.50	10.50
477412.80	1379132.55	7.00	9.00
477512.76	1379135.28	9.50	8.50
477510.02	1379235.23	13.50	8.50
477507.29	1379335.20	15.00	7.50
477609.98	1379237.97	15.00	12.50
477612.72	1379138.02	28.00	7.00
477088.00	1379610.00	9.00	7.50
477101.00	1379452.00	8.50	9.40
477085.00	1379276.00	9.80	8.80
477208.00	1379145.00	9.60	10.50
477197.00	1379332.00	11.50	9.50
476982.00	1379620.00	6.00	6.50
476939.00	1379507.00	5.50	7.50
477025.00	1379390.00	6.50	7.50
476852.00	1379523.00	10.00	7.00
478102.00	1379456.00	22.00	12.00
478105.00	1379523.00	20.50	13.50
478103.00	1379588.00	23.00	15.50
478105.00	1379666.00	23.00	13.50
478106.00	1379738.00	24.00	15.00
478103.00	1379817.00	26.50	14.50
478105.00	1379881.00	24.50	16.00
478102.00	1379923.00	22.50	13.50
478236.00	1379872.00	25.50	13.50
478233.00	1379785.00	25.00	15.00
478236.00	1379702.00	27.00	16.50
478239.00	1379606.00	27.00	13.00
478237.00	1379523.00	24.00	13.00
478236.00	1379432.00	21.00	13.50
478231.00	1379334.00	20.00	11.50
478229.00	1379253.00	19.50	13.50
478234.00	1379162.00	19.50	18.00
476229.00	1379516.00	15.00	8.00
476331.00	1379217.00	9.00	9.50
476856.00	1379247.00	10.50	10.50

FIGURE F-17A
CIS GEOPHYSICAL ANALYSIS
EM 31 HORIZONTAL CONTOUR MAP
(CONTOUR INTERVALS = 10 AND 100 MMHOS/M)



6509

FEMP-OU02-6 FINAL
January 21, 1995

FIGURE F-17B

CIS GEOPHYSICAL ANALYSIS
EM 31 VERTICAL CONTOUR MAP
(CONTOUR INTERVALS = 10 AND 100 MMHOS/M)

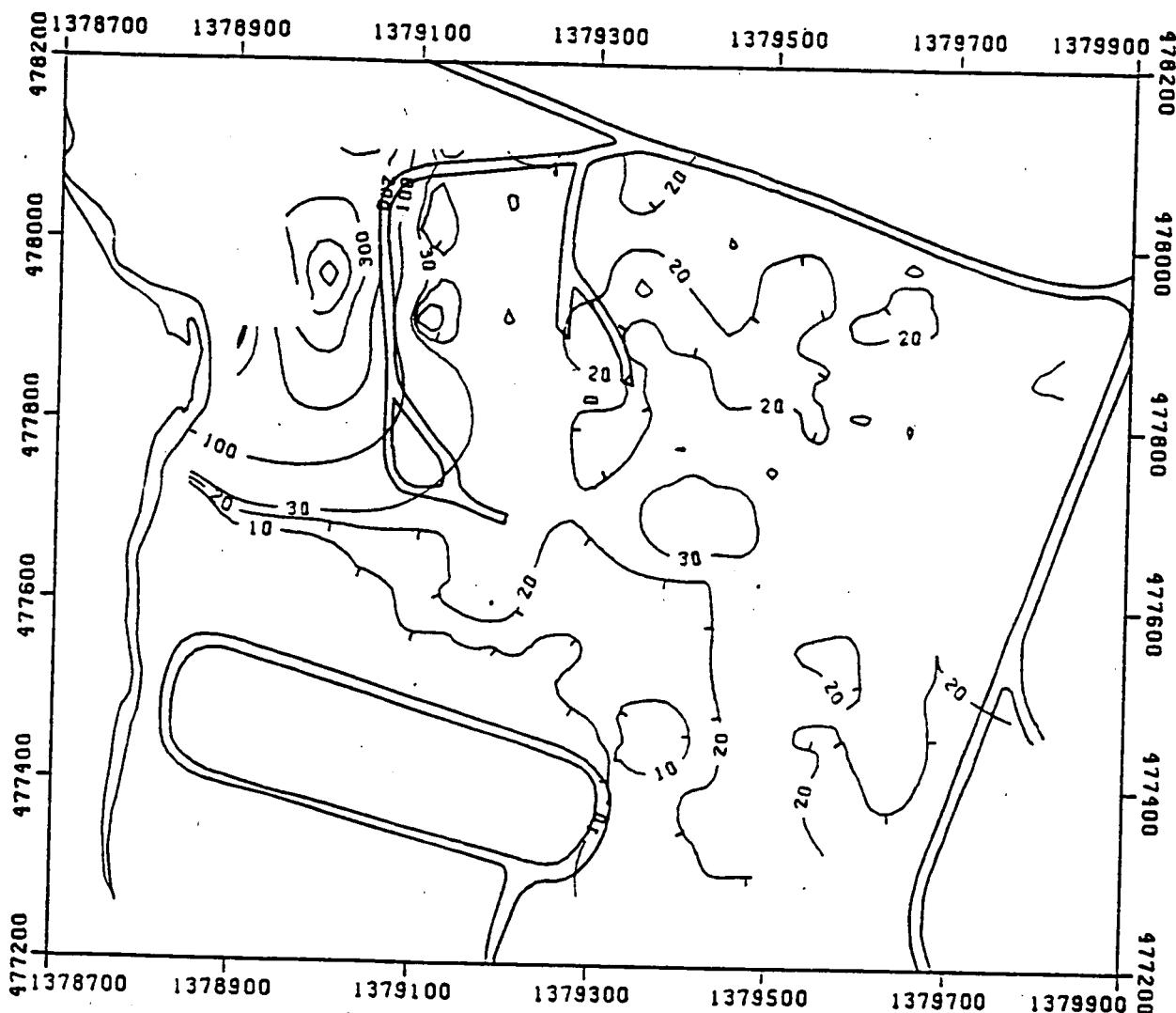
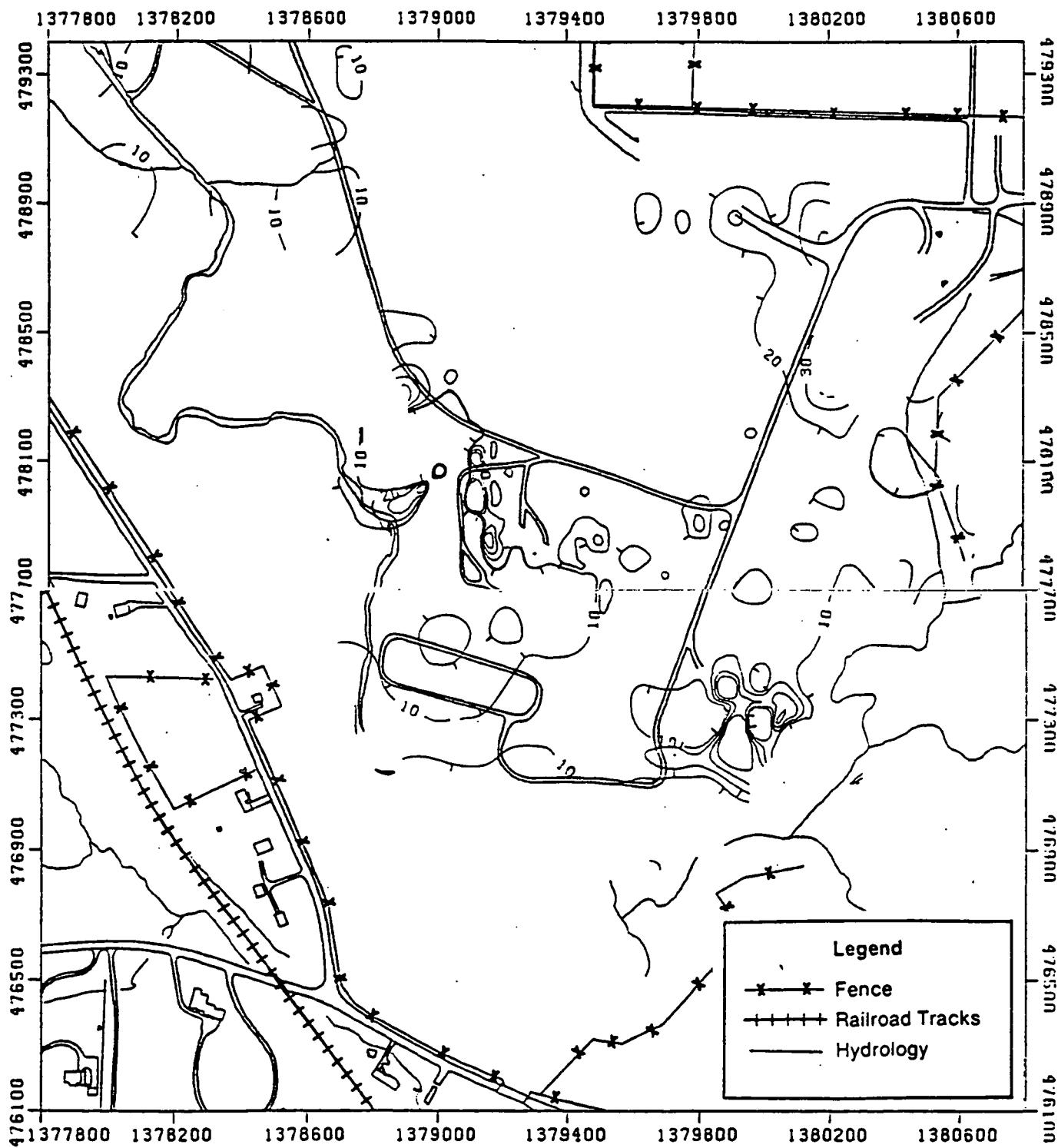


FIGURE F-17C
CIS GEOPHYSICAL ANALYSIS
EM 34-3 HORIZONTAL CONTOUR MAP
(CONTOUR INTERVALS = 10 AND 100 MMHOS/M)



6509

FEMP-OU02-6 FINAL
January 21, 1995

FIGURE F-17D
CIS GEOPHYSICAL ANALYSIS
EM 34-3 VERTICAL CONTOUR MAP
(CONTOUR INTERVALS = 10 AND 100 MMHOS/M)

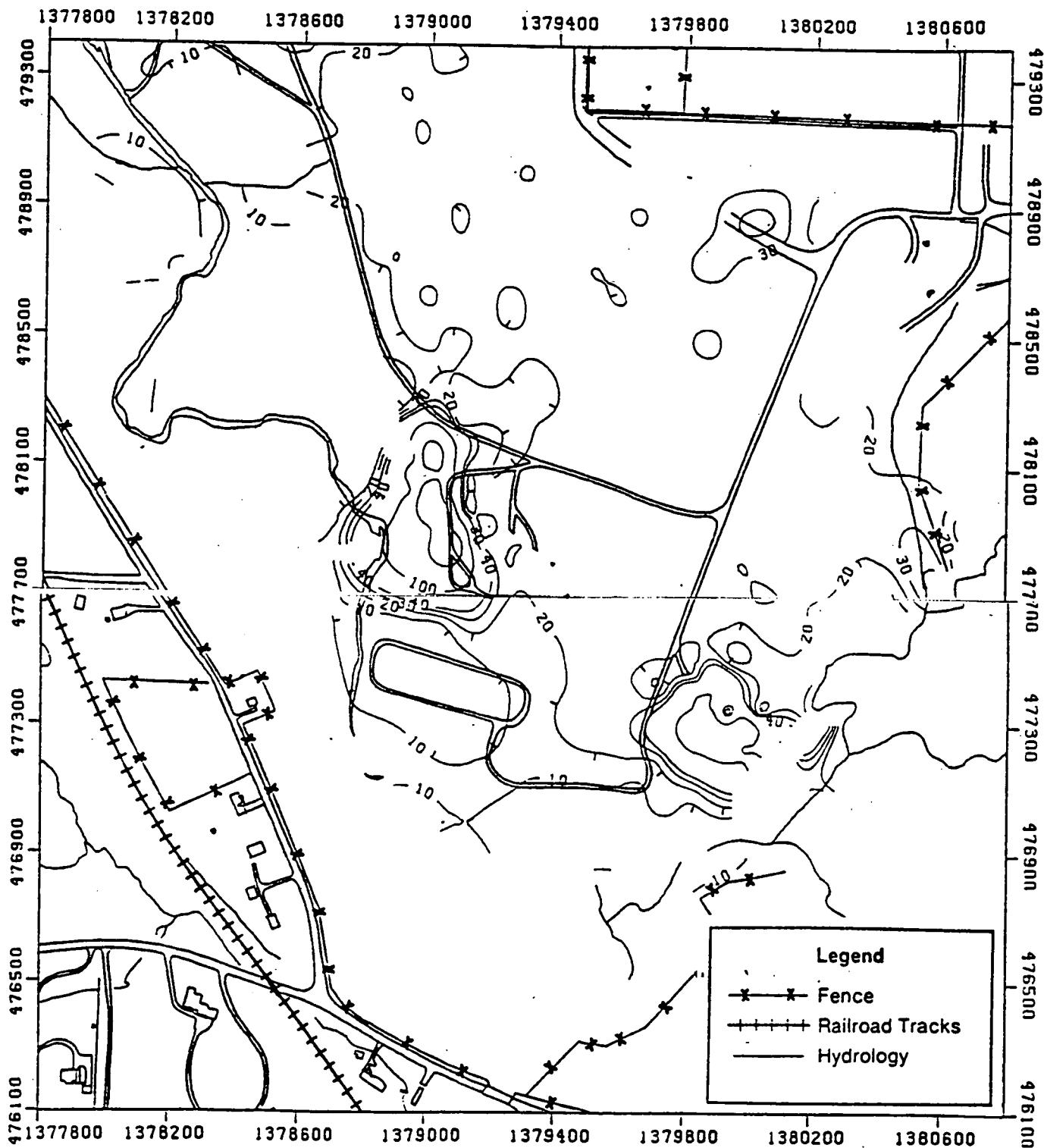
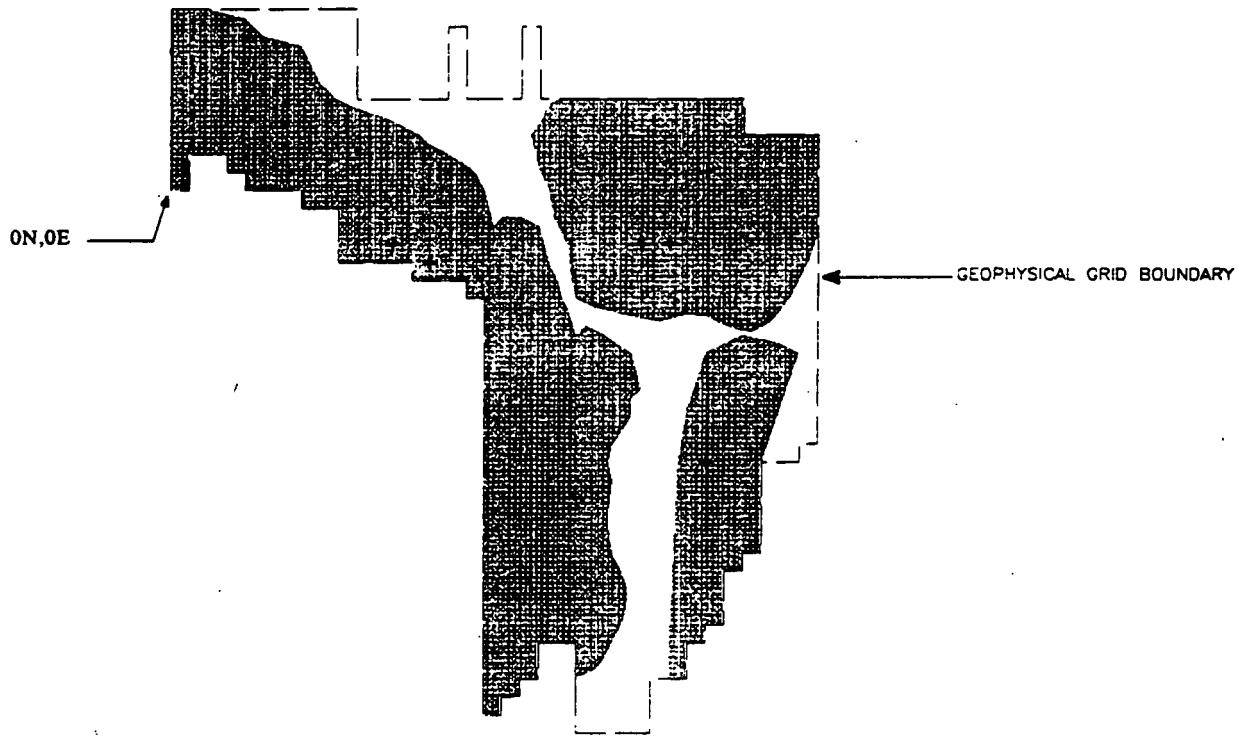


FIGURE F-17E
SOUTH FIELD
RI/FS PHASE II INVESTIGATION
GEOPHYSICAL INTERPRETATION



LEGEND

- - AREAS WITH MAGNETIC ANOMALIES
- + - LOCATION OF EM INPHASE COMPONENT ANOMALIES

NOTES:

1. GEOPHYSICAL GRID POINT ON, OE CORRESPONDS TO N477,900 E1,347,600 OF THE STATE PLANNER COORDINATE SYSTEM.

Scale 1:1600
100 100 200 300 400
(feet)

TABLE F-18

870,000

FERNALD RI/FS

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 602 3.2					PROJECT NAME: FMPC RI/FS				
BORING NUMBER: 1016				COORDINATES: NORTH 477,617.13 EAST 1,379,149.06					DATE: 10/15/87
GROUND ELEVATION: N/A				GWL: Depth N/A		Date/Time N/A	DATE STARTED: 10/15/87		
ENGINEER/GEOLOGIST: WILL KEGLEY				Depth N/A		Date/Time N/A	DATE COMPLETED: 10/16/87		
DRILLING METHODS: CABLE-TOOL						PAGE 1 OF 2			
D E P T H	S A M P T H	A D I T L E E	T O M E E S P L E O N	B S A W M O V H E R Y	R E I C N C O V H E R S		S U Y S M C B S O L	T S F	REMARKS
0.0 1.5	007232 10/15/87 1445	2 2 5	2 2 16	MEDIUM STIFF, BLACK (2.5Y 2/), SILT, SOME SAND, FLYASH, DRY.		ML	0.1	Hn=0 $\alpha =0$ BT =40-80	ppm cpm cpm
3.0	007233 10/15/87 1500	4 4 3	4 4 14	LOOSE, DARK YELLOWISH BROWN (10YR 4/4), SILTY SAND, DRY.		SM	N/A	Hn=0 $\alpha =0$ BT =40-80	ppm cpm cpm
4.5	007234 10/15/87 1510	4 5 4	5 4 13	LOOSE, BROWNISH YELLOW (10YR 6/8), SAND, SOME SILT, TRACE CLAY, DRY.		SM	N/A	Hn=0 $\alpha =0$ BT =40-80	ppm cpm cpm
6.0	007235 10/15/87 1520	5 7 12	5 7 12	MEDIUM DENSE, YELLOWISH BROWN (10YR 5/6), GRAVELLY SAND, TRACE SILT, DRY.		SW	N/A	Hn=0 $\alpha =0$ BT =40-80	ppm cpm cpm
7.5	007236 10/15/87 1525	15 24 16	15 24 16	DENSE, YELLOWISH BROWN (10YR 5/6), GRAVELLY SAND, DRY.		SW	N/A	Hn=0 $\alpha =0$ BT =160	ppm cpm cpm
9.0	007237 10/15/87 1530	13 85 42	13 85 42	VERY DENSE, LIGHT YELLOWISH BROWN (10YR 6/4), GRAVELLY SAND, TRACE CLAY, DRY.		SW	N/A	Hn=0 $\alpha =0$ BT =40-80	ppm cpm cpm
10.5	007223 007238 10/15/87 1700	15 23 24	15 23 24	DENSE, DARK YELLOWISH BROWN (10YR 4/4), GRAVELLY SAND, DRY.		SW	N/A	Hn=0 $\alpha =0$ BT =40-80	ppm cpm cpm
12.0	007239 10/15/87 1720	15 16 18	15 16 18	DENSE, REDDISH YELLOW (7.5YR 7/6), GRAVELLY SAND, DRY.		SW	N/A	Hn=0 $\alpha =0$ BT =40-80	ppm cpm cpm
13.5	007240 10/15/87 1735	-9 12 26	12 26 8	DENSE, REDDISH YELLOW (7.5YR 6/6), GRAVELLY SAND, DRY.		SW	0.1	Hn=0 $\alpha =0$ BT =40-80	ppm cpm cpm
15.0	007241 10/15/87 1750	8 10 13	8 10 13	MEDIUM DENSE, LIGHT BROWN (7.5YR 6/4), SAND, DRY.		SP	0.1	Hn=0 $\alpha =0$ BT =40-80	ppm cpm cpm
16.5	007242 10/16/87 0925	2 6 10	2 6 10	MEDIUM DENSE, DARK YELLOWISH BROWN (10YR 4/4), SAND, TRACE GRAVEL, WET.		SP	N/A	Hn=0 $\alpha =0$ BT =40-80	ppm cpm cpm
18.0	007243 10/16/87 1015	4 13 14	4 13 14	MEDIUM DENSE, STRONG BROWN (7.5YR 5/6), SAND, TRACE GRAVEL, WET.		SP	N/A	Hn=0 $\alpha =0$ BT =40-80	ppm cpm cpm
19.5	007244 10/16/87 1040	3 4 7	3 4 17	MEDIUM DENSE, DARK YELLOWISH BROWN (10YR 4/4), SAND, WET.		SP	N/A	Hn=0 $\alpha =0$ BT =40-80	ppm cpm cpm

FERNALD RI/FS

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 602 3.2				PROJECT NAME: FMPC RI/FS			
BORING NUMBER: 1016				COORDINATES: NORTH 477,617.13 EAST 1,379,149.06			
GROUND ELEVATION: N/A				GWL: Depth N/A Date/Time N/A			
ENGINEER/GEOLOGIST: WILL KEGLEY				Depth N/A Date/Time N/A			
DRILLING METHODS: CABLE-TOOL							
D E P T H	S A M P L E	B D T M E E	R I C O L E		S U S C S O L	T S F	REMARKS
21.0	007350 10/16/87 1100	2 7 13	18	MEDIUM DENSE, DARK YELLOWISH BROWN (10YR 4/4), SAND, TRACE GRAVEL, WET.	SP	N/A	Hm=0 ppm $\alpha =0$ cpm 8I =40-80 cpm
22.5	007351 10/16/87	4 9 10	18	MEDIUM DENSE, DARK YELLOWISH BROWN (10YR 4/4), SAND, TRACE GRAVEL, WET.	SP	N/A	Hm=0 ppm $\alpha =0$ cpm 8I =40-80 cpm
BOTTOM OF BORING 22.5							
NOTES: MONITORING WELL INSTALLED.							

02/02/94 17:03

PROJECT NUMBER: 602 3.2					PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION						
BORING NUMBER: 1046					COORDINATES: NORTH 478054.76 EAST 1379428.51			DATE: 06-FEB-88			
GROUND ELEVATION: 576.5					GWL: Depth Date/Time			DATE STARTED: 06-FEB-88			
ENGINEER/GEOLOGIST: T. SULLIVAN					Depth Date/Time			DATE COMPLETE: 09-FEB-88			
DRILLING METHOD: CABLE-TOOL DRILLING											
D E P T H	S A D M P L E	D T M E	B L O W S O N	T I M E	R S A C P L E	I R E C O V E R Y	R I N C H E S	S Y U S M C B S O L	T S F	REMARKS	
1.5	008014 02/06/88 11:20	5 5 7	5 5 7	14	HARD DARK BROWNISH GRAY 10YR 3/1 SILT (TOPSOIL), ORGANIC RICH, DRY. HARD YELLOW-BROWN 10YR 3/6 SILTY CLAY, DRY.				CL CL	>5 >5	PID=0 ppm α =2 ppm BT=60 cpm
1.5 3.0	008015 02/06/88 11:28	6 9 14	6 9 14	17	HARD, YELLOW-BROWN 10YR 3/6 SILTY CLAY, DRY.				CL	3.0	PID=0 ppm α =2 ppm BT=60 cpm
3.0 4.5	008016 02/06/88 11:35	10 8 7	10 8 7	16	SOFT, YELLOW-BROWN 10YR 3/6 SILTY CLAY, DRY.				CL	0.5	PID=0 ppm α =0 ppm BT=80 cpm
4.5 6.0	008017 02/06/88 11:40	7 11 15	7 11 15	18	SOFT YELLOW-BROWN 10YR 3/4 SILT, TRACE SAND, WET.				ML	1.0	PID=0 ppm α =2 ppm BT=60 cpm
6.0 7.5	008018 02/06/88 11:45	5 10 15	5 10 15	17	MEDIUM DENSE, YELLOW-BROWN 10YR 3/4 FINE GRAINED SAND, SOME SILT, WET.				SM	N/A	PID=0 ppm α =0 ppm BT=100 cpm
7.5 9.0	008019 02/07/88 14:55	4 7 7	4 7 7	11	MEDIUM DENSE, YELLOW-BROWN 10YR, 4/6 FINE GRAINED SAND AND SILT, WET. VERY STIFF, YELLOW-BROWN 10YR 4/4 CLAY, TRACE SILT, DRY. VERY STIFF, GRAY 10YR, 4/1 CLAY, DRY.				SM CL CL	N/A 3.0 3.5	PID=0 ppm α =0 ppm BT=100 cpm
9.0 10.5	008020 02/07/88 16:45	3 5 4	3 5 4	11	STIFF, GRAY 10YR 5/1 CLAY, SOME SILT, DRY.				CL	1.25	PID=0 ppm α =2 ppm BT=100 cpm
12.0 13.5	008022 02/08/88 08:15	0 4 6	0 4 6	8	LOOSE, GRAY-BROWN 10YR 4/2 FINE GRAINED SAND, SOME SILT, MOIST. VERY STIFF, GRAY 10YR 4/1 CLAY, TRACE SILT, MOIST.				SM CL	N/A 2.2	PID=0 ppm α =0 ppm BT=100 cpm
13.5 15.0	008023 02/08/88 08:25	6 6 5	6 6 5	7	STIFF, GRAY 10YR 4/1 CLAY, TRACE SILT, MOIST. MEDIUM DENSE, GRAY-BROWN 10YR 3/2 SAND, SOME SILT AND CLAY, MOIST.				CL SM	1.5 N/A	PID=0 ppm α =2 ppm BT=80 cpm
15.0 16.5	008026 02/08/88 08:40	N/A	N/A						N/A	N/A	
16.5 18.0	008027 02/08/88 09:10	5 4 5	5 4 5	13	STIFF, GRAY 10YR 4/1 SAND, SOME SILT AND CLAY, TRACE GRAVEL, MOIST. VERY STIFF, GRAY-BROWN 10YR 3/1 CLAY, SOME GRAVEL, DRY.				SM CL	N/A 4	PID=0 ppm α =2 ppm BT=100 cpm
18.0 19.5	008028 02/08/88 09:40	5 6 8	5 6 8	8	STIFF, GRAY 10YR 5/1 CLAY, SOME GRAVEL, DRY.				CL	1.25	PID=0 ppm α =0 ppm BT=100 cpm
19.5 21.0	008029 02/08/88 10:25	3 3 6	3 3 6	9	STIFF, GRAY 10YR 4/1 CLAY, SOME SILT, TRACE GRAVEL, DRY.				CL	1.0	PID=0 ppm α =0 ppm BT=80 cpm
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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02/02/94 17:03

PROJECT NUMBER: 602 3.2					PROJECT NAME: CRUZ RI PHASE I FIELD INVESTIGATION							
BORING NUMBER: 1046					COORDINATES: NORTH 478054.76 EAST 1379428.51			DATE: 06-FEB-88				
GROUND ELEVATION: 576.5					GWL: Depth	Date/Time		DATE STARTED: 06-FEB-88				
ENGINEER/GEOLOGIST: T. SULLIVAN					Depth	Date/Time		DATE COMPLETE: 09-FEB-88				
DRILLING METHOD: CABLE-TOOL DRILLING												
D E P T H	S A M P L E	D T I M E	B L O W S P E N O N	R E C O V E R Y	I N C H E E S	S U Y S M C B S O L	T S F	REMARKS				
21.0	008030 02/08/88 10:40	3 13 18	18	HARD, GREEN-GRAY 5Y 4/1 CLAY, SOME GRAVEL AND PEBBLES, WOOD FRAGMENTS, DRY.			CL	>5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=110$ cpm			
22.5	008031 02/08/88 11:45	8 18 20	13	HARD, GREEN-GRAY 5Y 4/1 CLAY, SOME GRAVEL AND PEBBLES, DRY. VERY STIFF, GREEN-GRAY 5Y 4/1 CLAY, SOME GRAVEL, DRY.			CL CL	>5 3.0	PID=0 ppm $\alpha=2$ ppm $\beta\Gamma=100$ cpm			
24.0	008032 02/08/88 14:00	9 19 23	16	VERY STIFF, GREEN-GRAY 5Y 4/1 CLAY, SOME GRAVEL, DRY. HARD, YELLOW-BROWN 10YR 4/4 CLAY, SOME GRAVEL, DRY. DENSE, BROWN 10YR 4/3 SAND, SOME SILT AND GRAVEL, TRACE CLAY, DRY.			CL SP	>5 N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=100$ cpm			
27.0	008033 02/08/88 14:55	14 23 24	14	DENSE YELLOW-BROWN 10YR 4/4 SAND, SOME GRAVEL AND SILT, DRY.			SP	N/A	PID=0 ppm $\alpha=2$ ppm $\beta\Gamma=80$ cpm			
NOTES:												
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable												

January 21, 1995

6509

FERNALD RI/FS

VISUAL CLASSIFICATION OF SOILS

SF

PROJECT NUMBER: 602 3.2				PROJECT NAME: FMPC RI/FS			
BORING NUMBER: 1065				COORDINATES: NORTH 477,860.01 EAST 1,380,415.92			
GROUND ELEVATION:				GWL: Depth N/A Date/Time N/A	DATE STARTED: 10/04/87		
ENGINEER/GEOLOGIST: D OAKLEY				Depth N/A Date/Time N/A	DATE COMPLETED: 10/06/87		
DRILLING METHODS: CABLE-TOOL							
D E P T H	S A M P L E	B D T H E E	R I C O V E R Y		S U S C S 0 L	T S F	REMARKS
0.0							
14.0							
BOTTOM OF BORING 14.0							
NOTES: SEE BORING LOG #2065 FOR STRATIGRAPHY. NO SAMPLES TAKEN FROM THIS BORING. MONITORING WELL INSTALLED.							

January 21, 1995

FERNALD RI/FS

VISUAL CLASSIFICATION OF SOILS

SF

PROJECT NUMBER: 602 3.7				PROJECT NAME: FMPC RI/FS							
BORING NUMBER: 1455				COORDINATES: NORTH 477,915 EAST 1,379,479				DATE: 11/04/89			
GROUND ELEVATION: 577.9				GWL: Depth N/A		Date/Time N/A		DATE STARTED: 11/04/89			
ENGINEER/GEOLOGIST: E TROLLINGER				Depth N/A		Date/Time N/A		DATE COMPLETED: 11/05/89			
DRILLING METHODS: CAT 225 B LC BACKHOE TRENCHING								PAGE 1 OF 1			
D E P T H E	S A M P L E	B D A T E E	R T C M S P					S U S C B S O L	T Y M S F O L	REMARKS	
3.0 3.2	55900 55907 11/04/89 0930	N/A N/A	N/A N/A	LOOSE, BROWN (7.5YR 4/2), SILTY SAND, TRACE GRAVEL (0.5-1.5 IN.).				SM	N/A	Hm=0.4 $\alpha =0$ BI=60-100 ESP1=16,000	ppm cpm cpm cpm
3.75 3.95	55901 55908 11/04/89 0935	N/A N/A	N/A N/A	VERY STIFF, YELLOWISH BROWN (10YR 5/6) MOTTLED GRAY (10YR 5/1), TRACE OF SILTY LAYERS, TRACE GRAVEL (0.5-1.0 IN), LOW TO MEDIUM PLASTICITY, MOIST.				CL	2.0	Hm=0.0 $\alpha =0$ BI=60 ESP/SPA-3=	ppm cpm cpm 16,100 cpm
BOTTOM OF EXCAVATION											
<p>NOTES:</p> <p>THIS EXCAVATION AND SAMPLING AT TRENCH #1.</p> <p>TOP 8 INCHES CONSISTS OF OVERGROWTH GRASS, ROOTS, ETC</p> <p>SAMPLES 55900, 55901 ARE FOR FULL RAD.</p> <p>FILL MATERIAL MADE FROM NON-NATIVE SOIL. SOME CONSTRUCTION RUBBLE EVIDENT IN FILL. CONCRETE FOUND (0.0-1.5 FT); METAL SCRAP ($BI=1000$ cpm) FROM 0.5-1.0 FT.</p> <p>FILL/TILL BOUNDARY AT 3.6 FT.</p>											

FERNALD RI/FS

VISUAL CLASSIFICATION OF SOILS

SF

PROJECT NUMBER: 602 3.7					PROJECT NAME: FMPC RI/FS					
BORING NUMBER: 1456					COORDINATES: NORTH 477,940 EAST 1,379,479					
GROUND ELEVATION: 577.9					GWL: Depth N/A Date/Time N/A	DATE STARTED: 11/04/89				
ENGINEER/GEOLOGIST: E TROLLINGER					Depth N/A Date/Time N/A	DATE COMPLETED: 11/05/89				
DRILLING METHODS: CAT 225B LC										PAGE 1 OF 1
D E P T H	S A M P L E	B A T T E E	R I M E S P		S U Y S M C B S O L	T S F	REMARKS			
3.75 3.9	55902 55909 11/04/89 0955	N/A	N/A	LOOSE, BROWN (7.5YR 4/2), SILTY SAND, TRACE GRAVEL (0.5-2.5 IN), TRACE CLAY, SLIGHTLY COHESIVE, MOIST..	SM	N/A	Hmu=0.0 $\alpha =0$ BT =100-140 cpm ESP1=14,400 cpm			
4.25 4.4	55903 55910 11/04/89 1000	N/A	N/A	VERY STIFF, MOTTLED GRAY (10YR 5/1) WITH YELLOWISH BROWN WITH 10YR 5/6), CLAY, TRACE FINE GRAVEL (0.5-1.0 IN), MEDIUM PLASTICITY, MOIST.	CL	2.0	Hmu=0.0 $\alpha =0$ BT =100 cpm ESP1= 14,400 cpm			
BOTTOM OF EXCAVATION										
<p>NOTES: THIS EXCAVATION AND SAMPLING AT TRENCH #1. TOP 8 INCHES CONSISTS OF OVERTHROW GRASS, ROOTS, ETC. FILL MATERIAL CONSISTS OF CONSTRUCTION RUBBLE, NON-NATIVE SOIL, CONCRETE, ASPHALT, AND METAL SCRAP. FILL/TILL BOUNDARY AT 4.0 FT. SAMPLES 55902, 55903 ARE FOR FULL RAD. HSL SAMPLE #55906 TAKEN AT 3.75 FT.</p>										

January 21, 1995

SF

FERNALD RI/FS

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 602 3.7				PROJECT NAME: FMPC RI/FS							
BORING NUMBER: 1457				COORDINATES: NORTH 477,965 EAST 1,379,479				DATE: 11/04/89			
GROUND ELEVATION: 577.3				GWL: Depth N/A Date/Time N/A				DATE STARTED: 11/04/89			
ENGINEER/GEOLOGIST: E TROLLINGER				Depth N/A Date/Time N/A				DATE COMPLETED: 11/05/89			
DRILLING METHODS: CAT 225B LC				PAGE 1 OF 1							
D E P T H	S A M P L E	B A I T E E	R I C N O S P L E R Y					S U S C B S O L	T Y M S F	REMARKS	
4.0 4.2	55904 55911 11/04/89 1030	N/A	N/A	LOOSE, BROWN (7.5YR 4/2), SILTY SAND, SOME GRAVEL (0.5-2.5 IN), SLIGHTLY COHESIVE, MOIST.				SM	N/A	Hmu=0.2 $\alpha =0$ BT =200-400 cpm ESP1=35,000 cpm	ppm cpa cpm cpm
4.4 4.6	55905 55912 11/04/89 1040	N/A	N/A	VERY STIFF, YELLOWISH BROWN (10YR 5/6), CLAY, TRACE OF SILTY LAYERS THROUGHOUT, SOME GRAVEL (0.5-1.5 IN), LOW TO MEDIUM PLASTICITY, MOIST.				CL	2.0	Hmu=0.2 $\alpha =0$ BT =60-80 cpm ESP1=31,000 cpm	ppm cpa cpm cpm
BOTTOM OF EXCAVATION											
<p>NOTES: THIS EXCAVATION AND SAMPLING AT TRENCH #1. TOP 8 INCHES OVERGROWTH GRASS, WEEDS, ROOTS. FILL COMPOSED OF CONSTRUCTION RUBBLE, CONCRETE, ASPHALT, ORGANIC ROOTS, AND SILTY SAND WITH GRAVEL. FILL/TILL BOUNDARY AT 4.0 FT. SAMPLES 55904, 55905 ARE FOR FULL RAD.</p>											

FERNALD RI/FS

VISUAL CLASSIFICATION OF SOILS

SF

PROJECT NUMBER: 602 3.7				PROJECT NAME: FMPC RI/FS				
BORING NUMBER: 1458				COORDINATES: NORTH 477,880 EAST 1,379,631			DATE: 11/06/89	
GROUND ELEVATION: 578.6				GWL: Depth N/A	Date/Time N/A	DATE STARTED: 11/06/89		
ENGINEER/GEOLOGIST: E TROLLINGER				Depth N/A	Date/Time N/A	DATE COMPLETED: 11/06/89		
DRILLING METHODS: BACKHOE TRENCH CAT 225 B LC							PAGE 1 OF 1	
D E P T H E	S A M P L E	B O W L E N	R I C O V E R Y			S U S C S L	T S F	REMARKS
3.8 4.0	55913 55920 11/06/89 0900	N/A	N/A	LOOSE, BROWN (7.5YR 4/2), SILTY SAND, TRACE GRAVEL (0.5-3.5 IN), TRACE OF CLAYEY LENSES OR LAYERS, MOIST.		SM	N/A	Hmu=0.0 ppm $\alpha = 0$ cpm $\delta \Gamma = 100-200$ cpm ESP1=13,000 cpm
4.5 4.7	55914 55921 11/06/89 0920	N/A	N/A	VERY STIFF, GRAYISH BROWN (10YR 4/2), CLAY, TRACE SILT, TRACE GRAVEL (0.5-1.0 IN), LOW PLASTICITY, MOIST.		CL	2.5	Hmu=0.0 ppm $\alpha = 0$ cpm $\delta \Gamma = 300-400$ cpm ESP1=13,500 cpm
BOTTOM OF EXCAVATION								
<p>NOTES: THIS EXCAVATION AND SAMPLING AT TRENCH #2, SOUTH END. TOP 5 TO 8 INCHES OVERGROWTH. FILL MATERIAL FROM 0.0-4.0 FT CONSISTS OF OCCASIONAL PIECES OF CONSTRUCTION RUBBLE, CONCRETE (3-10 IN), ASPHALT, LESS THAN 1% OF FILL COMPOSED OF RUBBLE. FILL MATERIAL MAINLY SILTY SAND, TRACE OF GRAVEL (0.5-3.0 IN), MOIST. FILL/TILL BOUNDARY AT 4.0 FT. INTERFACE BETWEEN FILL AND TILL SHOWED SOME OXIDATION FROM MOISTURE OR WATER LEACHING, BETA GAMMA READING WERE ELEVATED RELATIVE TO FILL MATERIAL.</p>								

FERNALD RI/FS

VISUAL CLASSIFICATION OF SOILS

SF

PROJECT NUMBER: 602 3.7				PROJECT NAME: FMPC RI/FS						
BORING NUMBER: 1459				COORDINATES: NORTH 477,905 EAST 1,379,631						
GROUND ELEVATION: 581.0				GWL: Depth N/A	Date/Time N/A	DATE STARTED: 11/06/89				
ENGINEER/GEOLOGIST: E TROLLINGER				Depth N/A	Date/Time N/A	DATE COMPLETED: 11/06/89				
DRILLING METHODS: BACKHOE 225 B LC						PAGE 1 OF 1				
D E P T H	S A M P L	D I C M E	T O W S O	B S M P E	R E C O R		S U S C S O L	T M S F	REMARKS	
E E E E N	O E R S Y	L E E E Y								
5.0 5.2	55915 55922 11/06/89 0950	N/A	N/A	LOOSE, BROWN (7.5YR 4/2), SILTY SAND, TRACE GRAVEL (0.5-1.0 IN), MOIST.				SM	N/A	Hm=0 ppm $\alpha = 0$ cpm $BI = 100-120$ cpm $ESP1=11,500$ cpm
6.0 6.2	55916 55923 11/06/89 1000	N/A	N/A	VERY STIFF, YELLOWISH BROWN (10YR 4/3), SILTY CLAY, TRACE GRAVEL (0.5 IN), MEDIUM PLASTICITY, MOIST.				CL	2.5	Hm=0 ppm $\alpha = 0$ cpm $BI = 300-450$ cpm $ESP1=13,600$ cpm

BOTTOM OF EXCAVATION

NOTES:

THIS EXCAVATION AND SAMPLING AT TRENCH #2.
TOP 5 TO 8 INCHES ORGANIC OVERGROWTH. FILL MATERIAL FROM SURFACE TO 5.5 FT (FILL/TILL BOUNDARY) CONSISTS OF OCCASIONAL PIECES OF CONSTRUCTION RUBBLE, CONCRETE, ASPHALT, METAL LESS THAN 1 %. FILL MATERIAL MOSTLY UNIFORM THROUGHOUT, SILTY SAND, TRACE OF GRAVEL (0.5-3.0 IN), MOIST. CONCRETE PIECES (5 IN TO 12 IN DIA), ASPHALT PIECES (5 IN TO 10 IN). HSL SAMPLE #55919 TAKEN AT 5.0 FT.

FERNALD RI/FS

VISUAL CLASSIFICATION OF SOILS

SF

PROJECT NUMBER: 602 3.7				PROJECT NAME: FMPC RI/FS							
BORING NUMBER: 1460				COORDINATES: NORTH 477,930 EAST 1,379,631				DATE: 11/06/89			
GROUND ELEVATION: 578.8				GWL: Depth N/A Date/Time N/A				DATE STARTED: 11/06/89			
ENGINEER/GEOLOGIST: E TROLLINGER				Depth N/A Date/Time N/A				DATE COMPLETED: 11/06/89			
DRILLING METHODS: BACKHOE 225 B LC				PAGE 1 OF 1							
D E P T H	S A M P L E	B A T M E E	R I C H E R S					S U Y S M C B S O L	T S F	REMARKS	
3.5 3.7	55917 55924 11/06/89 1040	N/A	N/A	LOOSE, BROWN (7.5YR 4/2), SILTY SAND, TRACE TO SOME GRAVEL 0.5-1.0 IN), MOIST.				SM	N/A	Hmu=0.0 $\alpha =0$ BT =150 ESP1=13,200 ppm cpm cpm cpm	
4.25 4.45	55918 55925 11/06/89 1055	N/A	N/A	VERY STIFF, YELLOWISH BROWN TO GRAYISH BROWN (10YR 4/3), SILTY, CLAY, TRACE GRAVEL (0.5-1.0 IN), LOW PLASTICITY, MOIST.				CL	2.0	Hmu=0.0 $\alpha =0$ BT =300-500 ESP1=12,000 ppm cpm cpm cpm	
BOTTOM OF EXCAVATION											
<p>NOTES: THIS EXCAVATION AND SAMPLING AT TRENCH #2. TOP 5 TO 8 INCHES ORGANIC OVERGROWTH. FILL MATERIAL (0.5-3.75 FT) COMPOSED MAINLY OF SOIL, SOME LARGE GRAVEL AND COBBLES, SEVERAL PIECES OF CONCRETE (0.5-1.0 FT), SEVERAL PIECES OF SCRAP METAL (0.5 FT LONG).</p>											

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001089

January 21, 1995

FERNALD RI/FS

VISUAL CLASSIFICATION OF SOILS

SF

PROJECT NUMBER: 602 3.7				PROJECT NAME: FMPC RI/FS					
BORING NUMBER: 1461				COORDINATES: NORTH 477,842 EAST 1,379,784			DATE: 11/07/89		
GROUND ELEVATION: 579.2				GWL: Depth N/A	Date/Time N/A	DATE STARTED: 11/07/89			
ENGINEER/GEOLOGIST: E TROLLINGER				Depth N/A	Date/Time N/A	DATE COMPLETED: 11/07/89			
DRILLING METHODS: BACKHOE CAT 225 B-LC								PAGE 1 OF 1	
D	S	B	R				S	T	REMARKS
E	A D T	L S	E I				U Y	S F	
P	M A I	O A	C N				S M		
T	P T M	W M	O C				C B		
H	L E E	S P	V H				S O L		
E		L E E							
		O E R S							
		N Y							
4.0	55926 55933 11/07/89 1107	N/A	N/A	LOOSE, BROWN (7.5YR 4/2), SILTY SAND, SOME GRAVEL (0.5-3.0 IN), SLIGHTLY COHESIVE, MOIST.			SM	N/A	Hn=0.2 ppm $\alpha = 0$ cpm $\delta T = 80-100$ cpm ESP1/SPA-3= 7,630 cpm
4.2									
5.0	55927 55934 11/07/89 1110	N/A	N/A	VERY STIFF, YELLOWISH BROWN (10YR 4/4) WITH (10YR 4/2) MOTTLED, SILTY CLAY, LOW TO MEDIUM PLASTICITY, MOIST.			CL	2.5	Hn=0.2 ppm $\alpha = 0$ cpm $\delta T = 100-120$ cpm ESP1/SPA-3= 12,600 cpm
5.2									
BOTTOM OF EXCAVATION									

NOTES:

THIS EXCAVATION AND SAMPLING AT TRENCH #3, SOUTH END.
 TOP 3 TO 5 INCHES OVERGROWTH. FILL MATERIAL IS PREDOMINATELY FREE OF CONSTRUCTION RUBBLE AT THIS LOCATION TO THE DEPTH OF THE GLACIAL FILL. ONE OR TWO PIECES OF CONCRETE FOUND (6 IN SIZE).
 FILL/TILL BOUNDARY AT 4.25 FT.

FERNALD RI/FS

VISUAL CLASSIFICATION OF SOILS

SF

PROJECT NUMBER: 602 3.7				PROJECT NAME: FMPC RI/FS				
BORING NUMBER: 1462				COORDINATES: NORTH 477,867 EAST 1,379,784			DATE: 11/07/89	
GROUND ELEVATION: 579.1				GWL: Depth N/A	Date/Time N/A	DATE STARTED: 11/07/89		
ENGINEER/GEOLOGIST: E TROLLINGER		Depth N/A	Date/Time N/A	DATE COMPLETED: 11/07/89				
DRILLING METHODS: BACKHOE TRENCHING CAT 225 B LC						PAGE 1 OF 1		
D E P T H	S A M L E	B D T W S	R I C O E			S U S M C B S O L	T S F	REMARKS
4.25	55928 55935 11/07/89 1130	N/A	N/A	LOOSE, BROWN (7.5YR 4/2 TO 7.5YR 4/3), SILTY SAND, TRACE GRAVEL (0.5-3.0 IN), MOIST.		SM	N/A	Hnu=0.2 ppm $\alpha =0$ cpm BI =100 cpm ESP1/SPA-3= 11,000 cpm
4.4								
5.0	55929 55936 11/07/89 1135	N/A	N/A	STIFF, YELLOWISH BROWN (10YR 4/3), CLAY, SOME SILT, LOW PLASTICITY, SLIGHTLY OXIDIZED, MOIST.		CL	1.5	Hnu=0.2 ppm $\alpha =0$ cpm BI =110-120 cpm ESP1/SPA-3= 11,000 cpm
5.2								

BOTTOM OF EXCAVATION

NOTES:

THIS EXCAVATION AND SAMPLING AT TRENCH #3, MIDPOINT.
 TOP 3 TO 5 IN OVERGROWTH. FILL MATERIAL IN THIS LOCATION IS FREE OF CONSTRUCTION RUBBLE AND NO CONCRETE WAS FOUND.
 FILL IS PREDOMINATELY SILTY SAND WITH A TRACE OF GRAVEL.
 FILL/TILL BOUNDARY AT 4.25 FT.
 HSL SAMPLE #55932 TAKEN AT 4.0 FT DEPTH.
 SAMPLES 55928, 55929 ARE FOR FULL RAD ANALYSIS ONLY, ARCHIVE SAMPLES FOR THE SAME INTERVAL WERE COLLECTED BUT HAVE DIFFERENT SAMPLE #'S.

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001091

FERNALD RI/FS

VISUAL CLASSIFICATION OF SOILS

SF

PROJECT NUMBER: 602 3.7					PROJECT NAME: FMPC RI/FS						
BORING NUMBER: 1463					COORDINATES: NORTH 477,892 EAST 1,379,784			DATE: 11/07/89			
GROUND ELEVATION: 579.0					GWL: Depth N/A	Date/Time N/A	DATE STARTED: 11/07/89				
ENGINEER/GEOLOGIST: E TROLLINGER					Depth N/A	Date/Time N/A	DATE COMPLETED: 11/07/89				
DRILLING METHODS: CAT 225 B LC BACKHOE					PAGE 1 OF 1						
D	S	B	R		S	U	T	REMARKS			
E	A D T	L S	E I		S M	S M	S F				
P	M A I	O A	C N		C B	C B					
T	P T M	W M	O C		S O	S O					
H	L E E	S P	V H		L	L					
	E	O E	E E								
		N	R S								
			Y								
3.5	55930 55937 11/07/89 1420	N/A	N/A	LOOSE TO MEDIUM DENSE, BROWN (7.5YR 4/2) TO GRAYISH BROWN (10 YR 4/3), SILTY SAND, MOIST.					SM	N/A	Hm=0.2 $\alpha =0$ BI =80-100 ESP1/SPA-3= 12,000 cpm
3.7	55931 55938 11/07/89 1425	N/A	N/A	STIFF, BROWNISH GRAY (10YR 4/2) WITH YELLOWISH BROWN (10YR 4/4), SILTY CLAY, LOW PLASTICITY, MOIST.					CL	2.0	Hm=0.2 $\alpha =0$ BI =100 ESP1/SPA-3= 12,500 cpm
BOTTOM OF EXCAVATION											
<p>NOTES: THIS EXCAVATION AND SAMPLING AT TRENCH #3, NORTH END. OVERGROWTH GRASS, ROOTS (0 TO 6 IN); FILL MATERIAL PREDOMINATELY FREE OF CONSTRUCTION RUBBLE. MATERIAL IS MAINLY SILTY SAND WITH GRAVEL (0.5-3.0 IN), MOIST, LOOSE DENSITY. TWO PIECES OF WOOD FOUND (2x4, 2 FT LONG), ERODED. FILL/TILL BOUNDARY AT 4.0 FT. SAMPLES 55930, 55931 ARE FOR FULL RAD ANALYSIS ONLY, ARCHIVE SAMPLES WERE COLLECTED AT SAME LOCATIONS.</p>											

January 21, 1995

6509

FERNALD RI/FS

VISUAL CLASSIFICATION OF SOILS

SF

PROJECT NUMBER:	602 3.7	PROJECT NAME:	FMPC RI/FS					
BORING NUMBER:	1464	COORDINATES:	NORTH 477,734 EAST 1,379,566				DATE: 11/08/89	
GROUND ELEVATION:	575.7	GWL:	Depth N/A	Date/Time N/A			DATE STARTED: 11/08/89	
ENGINEER/GEOLOGIST:	E TROLLINGER	Depth	N/A	Date/Time	N/A		DATE COMPLETED: 11/08/89	
DRILLING METHODS:	CAT 225 BACKHOE (TRACKS)	PAGE	1	OF	1			
D E P T H	S A M P L E	B A I T E E	R O M S P L E O N	E I C O V H E R Y		S U S M C B S O L	T S F	REMARKS
3.75	55939 55946 11/08/89 1100	N/A	N/A	LOOSE, BROWN TO GRAYISH BROWN (7.5YR 4/2 TO 10YR 4/3), SILTY SAND, 30-40% SILT, TRACE GRAVEL (0.5-3.0 IN), MOIST.		SM	N/A	Hmu=0.0 ppm $\alpha = 0$ cpm $BI = 60-90$ cpm ESP/SPA-3= 8,000 cpm
3.95	55940 55947 11/08/89 1115	N/A	N/A	STIFF, YELLOWISH BROWN (10YR 4/4), SILTY CLAY, LOW PLASTICITY, MOIST.		CL	1.5	Hmu=0.0 ppm $\alpha = 0$ cpm $BI = 60-80$ cpm ESP/SPA-3= 10,000 cpm

BOTTOM OF EXCAVATION

NOTES:

THIS EXCAVATION AND SAMPLING AT TRENCH #4, NORTH END.

OVERGROWTH GRASS, TOP 4 INCHES. FILL MATERIAL IS A SILTY SAND, WITH GRAVEL, (0.5-3.0 IN). CONDITIONS MOIST WITH LOOSE DENSITY, SOME (3 PIECES) CONCRETE FOUND, 2 FT LONG. MATERIAL MONITORED AS STOCKPILED, READINGS WERE BACKGROUND.

FILL/TILL BOUNDARY AT 4.5 FT.

SAMPLES 55939, 55940 ARE FULL RAD SAMPLES, ARCHIVE SAMPLES HAVE DIFFERENT NUMBERS.

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001093

FERNALD RI/FS

FEMP-OU02-6 FINAL
VISUAL CLASSIFICATION OF SOILS

January 21, 1995

SF

PROJECT NUMBER: 602 3.7				PROJECT NAME: FMPC RI/FS							
BORING NUMBER: 1465				COORDINATES: NORTH 477,709 EAST 1,379,566				DATE: 11/08/89			
GROUND ELEVATION: 575.5				GWL: Depth N/A		Date/Time N/A		DATE STARTED: 11/08/89			
ENGINEER/GEOLOGIST: E TROLLINGER				Depth N/A		Date/Time N/A		DATE COMPLETED: 11/08/89			
DRILLING METHODS: CAT 225 TRENCH BACKHOE TRUCK MOUNTED								PAGE 1 OF 1			
D E P T H	S A M P L E	B D T M E E	R E C W L O					S U Y S M C B S O L	T S F	REMARKS	
3.5 3.7	55941 55948 11/08/89 1135	N/A	N/A	LOOSE, BROWN (7.5YR 4/2), SILTY SAND, CONSIDERABLE GRAVEL 0.5-3.0 IN), MOIST.				SM	N/A	Hrnu=0.0 $\alpha =0$ BT=60-100 ESP/SPA-3= 9,000	ppm cpm cpm cpm
4.5 4.7	55942 55949 11/08/89 1325	N/A	N/A	MEDIUM STIFF, YELLOWISH BROWN (10YR 4/4), SILTY CLAY, TRACE OF FINE GRAVEL (0.5 IN), LOW TO MEDIUM PLASTICITY, MOIST.				CL	1.0	Hrnu=0.0 $\alpha =0$ BT=100 ESP/SPA-3= 11,000	ppm cpm cpm cpm
BOTTOM OF EXCAVATION											
<p>NOTES: THIS EXCAVATION AND SAMPLING AT TRENCH #4, MIDPOINT. TOP 5 INCHES OVERGROWTH GRASS, ROOTS. FILL MATERIAL IS A SILTY SAND WITH A TRACE OF GRAVEL (0.5-3.0 IN). THREE PIECES OF WOOD FOUND (BT=100 cpm) AS CONSTRUCTION RUBBLE. MATERIAL SCANNED AS IT WAS STOCKPILED, NO READINGS ABOVE BACKGROUND. FILL/TILL BOUNDARY AT 3.75 FT. SAMPLES 55941, 55942 ARE FULL RAD, ARCHIVE SAMPLES HAVE DIFFERENT NUMBERS.</p>											

FERNALD RI/FS

VISUAL CLASSIFICATION OF SOILS

SF

PROJECT NUMBER: 602 3.7				PROJECT NAME: FMPC RI/FS			
BORING NUMBER: 1466				COORDINATES: NORTH 477,684 EAST 1,379,566			
GROUND ELEVATION: 575.3				GWL: Depth N/A Date/Time N/A			
ENGINEER/GEOLOGIST: E TROLLINGER				Depth N/A Date/Time N/A			
DRILLING METHODS: CAT 225 BACKHOE							
D E P T H	S A M P L E	B D T W L E	R I C O S P E E R N Y		S U S C B S O L	T S F	REMARKS
3.0 3.2	55943 55950 11/08/89 1345	N/A	N/A	LOOSE, BROWN (7.5YR 4/2), SILTY SAND, TRACE GRAVEL (0.5-4.0 IN), MOIST.	SM	N/A	Hmu=0.0 $\alpha =0$ BT =60-80 ESP/SPA-3= 9,000 ppm
4.5 4.7	55944 55951 11/08/89 1350	N/A	N/A	MEDIUM STIFF, YELLOWISH BROWN (10YR 4/4), SILTY CLAY, TRACE FINE GRAVEL, MEDIUM PLASTICITY, MOIST.	CL	1.0	Hmu=0 $\alpha =0$ BT =60-80 ESP/SPA-3= 11,500 ppm
BOTTOM OF EXCAVATION							
<p>NOTES: THIS EXCAVATION AND SAMPLING AT TRENCH #4, SOUTH END. TOP 5 INCHES, OVERGROWTH. FILL MATERIAL IS A SILTY SAND WITH GRAVEL (0.5-4.0 IN). NO RUBBLE FOUND IN SOUTH END OF TRENCH. MATERIAL MONITORED AS STOCKPILED, SOIL READINGS BELOW BACKGROUND. FILL/TILL BOUNDARY 3.75 FT. SAMPLES 55943, 55944 ARE FOR FULL RAD, ARCHIVE SAMPLES HAVE DIFFERENT NUMBERS.</p>							

RECORDED

F-18-17

001095

FERNALD RI/FS

VISUAL CLASSIFICATION OF SOILS

SF

PROJECT NUMBER: 602 3.7				PROJECT NAME: FMPC RI/FS				
BORING NUMBER: 1467				COORDINATES: NORTH 477,658 EAST 1,379,700				
GROUND ELEVATION: 576.3				GWL: Depth N/A Date/Time N/A	DATE STARTED: 11/14/89			
ENGINEER/GEOLOGIST: E TROLLINGER				Depth N/A Date/Time N/A	DATE COMPLETED: 11/14/89			
DRILLING METHODS: CAT 225 B LC BACKHOE								PAGE 1 OF 1
D E P T H	S A M P L	B D T M E E	R E C O L		S U S C L	T S F	REMARKS	
E E	A I I T E	D O W S P	T A M M V					
		L E S P V	E E R H					
		O N	R S Y					
2.5	55952 55960 11/14/89 0940	N/A	N/A	LOOSE, BROWN (7.5YR 4/2), SILTY SAND, SOME GRAVEL (0.5-2.0 IN), MOIST.	SM	N/A	Hmu=0 $\alpha =0$ BT=40-60 ESP1/SPA-3= 8,200	ppm cpm cpm cpm
2.7								
3.5	55953 55961 11/14/89 0950	N/A	N/A	STIFF, YELLOWISH BROWN (10YR 4/4) WITH GRAYISH BROWN (10YR 4/2), SILTY CLAY, TRACE GRAVEL (0.5 IN), LOW PLASTICITY, MOIST.	CL	1.5	Hmu=0 $\alpha =0$ BT=40 ESP/SPA-3= 11,500	ppm cpm cpm cpm
3.7								
BOTTOM OF EXCAVATION								
<p>NOTES: THIS EXCAVATION AND SAMPLING AT TRENCH #5. TOP 4 TO 5 INCHES OVERGROWTH GRASS, ROOTLETS, WEEDS. FILL MATERIAL COMPOSED OF SOIL AND SEVERAL PIECES OF CONSTRUCTION RUBBLE, CONCRETE (0.5 FT), ASBESTOS (6 IN LONG), BUILDING SIDING, AND WOOD FRAGMENTS. SURVEY OF FILL MATERIALS PRODUCED READINGS OF BACKGROUND. FILL/TILL BOUNDARY 2.75 FT. ARCHIVE SAMPLE NUMBERS 55960, 55961.</p>								

January 21, 1995

SF

FERNALD RI/FS

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 602 3.7				PROJECT NAME: FMPC RI/FS							
BORING NUMBER: 1468				COORDINATES: NORTH 477,633 EAST 1,379,700				DATE: 11/14/89			
GROUND ELEVATION: 575.7				GWL: Depth	N/A	Date/Time	N/A	DATE STARTED: 11/14/89			
ENGINEER/GEOLOGIST: E TROLLINGER				Depth	N/A	Date/Time	N/A	DATE COMPLETED: 11/14/89			
DRILLING METHODS: CAT 225 B LC BACKHOE								PAGE 1 OF 1			
D E P T H	S A M P L E	B D A T E E	R I C O L E					S U S C S O Y	T M B F O L	REMARKS	
2.5	55954 55962 11/14/89 1000	N/A	N/A	LOOSE, BROWN (7.5YR 4/2) TO GRAYISH BROWN (10YR 4/2), SILTY SAND, TRACE GRAVEL (0.5 IN), MOIST.				SM	N/A	Hn=0.0 $\alpha =0$ BT =40-80 ESP/SPA-3= 8,900 cpm	ppm cpm cpm cpm
2.7											
3.5	55955 55963 11/14/89 1005	N/A	N/A	STIFF, YELLOWISH BROWN (10YR 4/3), SILTY CLAY, TRACE GRAVEL (0.5-1.0 IN), LOW PLASTICITY, MOIST.				CL	1.0	Hn=0.0 $\alpha =0$ BT =40-60 ESP/SPA-3= 9,600 cpm	ppm cpm cpm cpm
3.7											
BOTTOM OF EXCAVATION											
<p>NOTES: THIS EXCAVATION AND SAMPLING AT TRENCH #5. TOP 4 TO 5 INCHES OVERGROWTH. FILL MATERIAL COMPOSED OF SOIL WITH LESS THAN 1% CONSTRUCTION RUBBLE; CONCRETE (0.5-1.0 FT), TRACE WOOD FRAGMENTS. FILL MATERIAL SURVEYED AS STOCKPILED, READINGS ON SOIL AT BACKGROUND LEVELS. FILL/TILL BOUNDARY AT 2.75' FT. ARCHIVE SAMPLE NUMBERS 55962 AND 55963.</p>											

January 21, 1995

FERNALD RI/FS

VISUAL CLASSIFICATION OF SOILS

SF

PROJECT NUMBER: 602 3.7				PROJECT NAME: FMPC RI/FS							
BORING NUMBER: 1469				COORDINATES: NORTH 477,608 EAST 1,379,700				DATE: 11/14/89			
GROUND ELEVATION: 575.9				GWL: Depth N/A Date/Time N/A				DATE STARTED: 11/14/89			
ENGINEER/GEOLOGIST: E TROLLINGER				Depth N/A Date/Time N/A				DATE COMPLETED: 11/14/89			
DRILLING METHODS: BACKHOE CAT 225 8 LC				PAGE 1 OF 1							
D E P T H	S A M P L E	B D T M E E	R I C O S P L E R N Y					S U S M C B S O L	T Y M F	REMARKS	
2.5	55956 55964 11/14/89 1040	N/A	N/A	LOOSE, BROWN WITH GRAYISH BROWN (10YR 4/2 WITH 7.5YR 4/2) SILTY SAND, TRACE GRAVEL (0.5-1.0 IN), MOIST.				SM	N/A	Hmu=0.0 $\alpha =0$ $8\Gamma =60$ ESP/SPA-3= 8,900	ppm cpm cpm cpm
2.7	55957 55965 11/14/89 1045	N/A	N/A	STIFF, YELLOWISH BROWN (10YR 4/4), SILTY CLAY, LOW PLASTICITY, MOIST.				CL	1.0	Hmu=0.0 $\alpha =0$ $8\Gamma =40-60$ ESP/SPA-3= 10,400	ppm cpm cpm cpm
BOTTOM OF EXCAVATION											
<p>NOTES: THIS EXCAVATION AND SAMPLING AT TRENCH #5. TOP 4 TO 5 INCHES OVERGROWTH. FILL MATERIAL COMPOSED OF SOIL WITH LESS THAN 1% RUBBLE ENCOUNTERED; CONCRETE (0.5 FT), WOOD FRAGMENTS. FILL MATERIAL SURVEYED AS STOCKPILED, READINGS AT BACKGROUND. FILL/TILL BOUNDARY AT 2.75 FT. ARCHIVE SAMPLE NUMBERS 55964 AND 55965.</p>											

January 21, 1995

6509
SF

FERNALD RI/FS

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 602 3.7				PROJECT NAME: FMPC RI/FS							
BORING NUMBER: 1470				COORDINATES: NORTH 477,370 EAST 1,379,639				DATE: 11/16/89			
GROUND ELEVATION: 568.1				GWL: Depth N/A Date/Time N/A				DATE STARTED: 11/15/89			
ENGINEER/GEOLOGIST: E TROLLINGER				Depth N/A Date/Time N/A				DATE COMPLETED: 11/16/89			
DRILLING METHODS: CAT 225 B LC TRACKHOE				PAGE 1 OF 1							
D E P T H	S A M P L E	B D T M E E	R I C O S P L E R N Y					S U S C S O L	T Y M B S F	REMARKS	
3.0 3.2	55966 55973 11/16/89 1100	N/A	N/A	LOOSE, BROWN (7.5YR 4/2), SILTY SAND, TRACE GRAVEL (0.5-3.0 IN), MOIST.				SM	N/A	$H_{m\mu}=0.0-0.2$ ppm $\alpha =0$ cpm $BT =40-60$ cpm ESP/SPA-3= 8,500 cpm	
4.2 4.4	55967 55974 11/16/89 1112	N/A	N/A	MEDIUM STIFF, YELLOWISH BROWN (10YR 4/3), SILTY CLAY, TRACE COARSE SAND TO FINE GRAVEL, MOIST, LOW PLASTICITY.				CL	1.0	$H_{m\mu}=0.2$ ppm $\alpha =0$ cpm $BT =40$ cpm ESP/SPA-3= 9,900 cpm	
BOTTOM OF EXCAVATION											
<p>NOTES: THIS EXCAVATION AND SAMPLING AT TRENCH #6, SOUTH END. TOP 3 TO 5 INCHES OVERGROWTH GRASS, ROOTS, WEEDS. FILL MATERIAL IS PREDOMINATELY SOIL WITH LESS THAN 1% RUBBLE WHICH CONSISTED OF SMALL BROKEN PIECES OF CONCRETE SLAB (0.5 FT), SEVERAL PIECES OF ASPHALT (3 TO 4 IN). FILL MATERIAL IS SILTY SAND WITH GRAVEL (0.5-3.0 IN), LOOSE DENSITY. MATERIAL MONITORED DURING STOCKPILING, READINGS WERE BACKGROUND OR LESS. FILL/TILL BOUNDARY AT 3.5 FT. ARCHIVE SAMPLE NUMBERS 55973 AND 55974.</p>											

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FERNALD RI/FS

VISUAL CLASSIFICATION OF SOILS

SF

PROJECT NUMBER: 602 3.7					PROJECT NAME: FMPC RI/FS				
BORING NUMBER: 1471					COORDINATES: NORTH 477,395 EAST 1,379,639				
GROUND ELEVATION: 570.8					GWL: Depth	N/A	Date/Time	N/A	DATE STARTED: 11/15/89
ENGINEER/GEOLOGIST: E TROLLINGER					Depth	N/A	Date/Time	N/A	DATE COMPLETED: 11/16/89
DRILLING METHODS: CAT 225 B LC TRACKHOE							PAGE 1	OF 1	
D E P T H	S A M P L E	B D T M E E	R I C O S P V R S Y				S U Y S M C B S O L	T S F	REMARKS
4.25 4.4	55968 55975 11/16/89 0837	N/A	N/A	LOOSE, BROWN (7.5YR 4/2 TO 10YR 5/3), SILTY SAND, TRACE GRAVEL (0.5-1.0 IN), MOIST.					SM N/A
5.5 5.7	55969 55976 11/16/89 0845	N/A	N/A	MEDIUM STIFF, GRAYISH BROWN (10YR 5/2), SILTY CLAY, TRACE GRAVEL (0.5-0.75 IN), LOW PLASTICITY, MOIST.					CL 1.0

BOTTOM OF EXCAVATION

NOTES:

THIS EXCAVATION AND SAMPLING AT TRENCH #6, MIDPOINT.
 TOP 3 TO 5 INCHES OVERGROWTH. FILL MATERIAL PREDOMINATELY SOIL WITH LESS THAN 1% OR LESS RUBBLE MATERIAL. TWO SMALL PIECES (0.5-1.0 FT) OF CONCRETE WERE UNCOVERED. FILL MATERIAL MONITORED DURING EXCAVATION, READINGS ON SOIL AND MATERIAL WERE BACKGROUND.
 FILL/TILL BOUNDARY AT 5.25 FT.
 ARCHIVE SAMPLE NUMBERS 55975 AND 55976.

FERNALD RI/FS

VISUAL CLASSIFICATION OF SOILS

SF

PROJECT NUMBER: 602 3.7					PROJECT NAME: FMPC RI/FS				
BORING NUMBER: 1472					COORDINATES: NORTH 477,420 EAST 1,379,639			DATE: 11/16/89	
GROUND ELEVATION: 571.7					GWL: Depth N/A	Date/Time N/A	DATE STARTED: 11/15/89		
ENGINEER/GEOLOGIST: E TROLLINGER					Depth N/A	Date/Time N/A	DATE COMPLETED: 11/16/89		
DRILLING METHODS: CAT 225 BACKHOE					PAGE 1 OF 1				
D E P T H	S A M P L E	B D T H E	R I C O S P E R Y		S U S C S O L	T Y M B S F	REMARKS		
4.25 4.4	55970 55977 11/16/89 0900	N/A	N/A	LOOSE, BROWN TO GRAYISH BROWN (10YR 5/2), SILTY SAND, TRACE OF GRAVEL (0.5-1.5 IN), MOIST.	SM	N/A	Hn=0.0 $\alpha =0$ BT =40 ESP/SPA-3= 9,200	ppm cpm cpm cpm cpm	
5.0 5.2	55971 55978 11/16/89 0905	N/A	N/A	MEDIUM DENSE, GRAYISH BROWN (10YR 5/2), SILTY CLAY, TRACE FINE GRAVEL, MEDIUM PLASTICITY, MOIST.	CL	1.0	Hn=0.0 $\alpha =0$ BT =40 ESP/SPA-3= 11,900	ppm cpm cpm cpm	
BOTTOM OF EXCAVATION									
<p>NOTES: THIS EXCAVATION AND SAMPLING AT TRENCH #6. TOP 3 TO 5 INCHES OVERGROWTH. FILL MATERIAL IS PREDOMINATELY SOIL WITH 1% OR LESS CONSTRUCTION RUBBLE. ONE PIECE CONCRETE FOUND (0.5 FT). SILTY SAND, TRACE GRAVEL (0.5-3.0 IN), LOOSE DENSITY, MOIST. FILL MATERIAL MONITORED DURING EXCAVATION OF TRENCH, READINGS AT BACKGROUND. FILL/TILL BOUNDARY AT 4.5 FT. ARCHIVE SAMPLE NUMBERS 55977 AND 55978.</p>									

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PROJECT NUMBER: 602 3.7					PROJECT NAME: CRU2 PHASE I FIELD INVESTIGATION					
BORING NUMBER: 1792					COORDINATES: NORTH 477280.15 EAST 1379372.54					
GROUND ELEVATION: 566.1					GWL: Depth	Date/Time		DATE STARTED: 21-AUG-91		
ENGINEER/GEOLOGIST: J. LEAR					Depth	Date/Time		DATE COMPLETE: 22-AUG-91		
DRILLING METHOD: AUGER										
D E P T H	S A M P L E	D A T E E E	B L O W S O N	T I M E E E	R E C O V E R Y	I N C H E S		S U Y M S C B S O L	T S F	REMARKS
1.5	067342 08/21/91 13:15	4 11 21	14		HARD, DARK YELLOWISH BROWN (10YR, 3/4) SILTY CLAY, TRACE GRAVEL, SOME ORGANICS, LOW PLASTIC, MOIST.		CL	2.5	PID=0 ppm α =60 ppm BT=0 cpm	
1.5 3.0	067343 08/21/91 13:20	22 23 27	17		V. HARD BROWN (10YR, 5/3) SILTY CLAY SOME LARGE GRAVEL, LOW PLASTICITY, MOIST.		CL	>4.5	PID=0 ppm α =60 ppm BT=0 cpm	
3.0 4.5	067344 08/21/91 13:25	24 25 27	17		VERY HARD YELLOWISH BROWN (10YR, 5/4) SILTY CLAY, SOME LARGE GRAVEL, LOW PLASTICITY, SLIGHTLY MOIST.		CL	>4.5	PID=0 ppm α =60 ppm BT=0 cpm	
4.5 6.0	067345 08/21/91 13:30	25 42 27	16		VERY HARD YELLOWISH BROWN (10YR, 5/4) SILTY CLAY, SOME LARGE GRAVEL, LOW PLASTICITY, SLIGHTLY MOIST.		CL	>4.5	PID=0 ppm α =60 ppm BT=0 cpm	
6.0 7.5	067346 08/21/91 15:00	37 43 39	13		VERY HARD YELLOWISH BROWN (10YR, 5/4) SILTY CLAY, SOME LARGE GRAVEL, LOW PLASTICITY, SLIGHTLY MOIST.		CL	4.5	PID=0 ppm α =60 ppm BT=0 cpm	
7.5 9.0	067347 08/21/91 15:05	21 24 29	13		VERY HARD, VERY DARK GRAYISH-BROWN (10YR, 3/2) SILTY CLAY, SOME LARGE GRAVEL, LOW PLASTICITY, SLIGHTLY MOIST.		CL	>4.5	PID=0 ppm α =60 ppm BT=0 cpm	
9.0 10.5	067348 08/21/91 15:10	21 24 19	12		DENSE, YELLOWISH BROWN (10YR, 5/4) CLAYEY SILT, SOME GRAVEL, MOIST, 10.0-HARD, OLIVE GRAVEL (5Y, 3/2) SILTY CLAY, SOME GRAVEL MEDIUM PLASTICITY, MOIST.		ML CL	N/A 2.5	PID=0 ppm α =60 ppm BT=0 cpm	
10.5 12.0	067349 08/21/91 15:15	9 6 7	4		FIRM OLIVE (5Y, 4/4) CLAY, SOME GRAVEL, MEDIUM PLASTICITY, MOIST.		CL	0.5	PID=0 ppm α =60 ppm BT=0 cpm	
12.0 13.5	067350 08/21/91 15:30	8 6 7	18		FIRM OLIVE (2.5Y, 4/3) SILTY CLAY, SOME GRAVEL, MEDIUM PLASTICITY, MOIST.		CL	0.5	PID=5-12 ppm α =60 ppm BT=0 cpm	
13.5 15.0	067351 08/21/91 15:35	8 9 7	18		FIRM OLIVE (2.5Y, 4/3) SILTY CLAY, SOME GRAVEL, MEDIUM PLASTICITY, MOIST.		CL	0.5	PID=1-2 ppm α =60 ppm BT=0 cpm	
15.0 16.5	067352 08/22/91 08:30	4 5 8	18		FIRM OLIVE (2.5Y, 4/3) SILTY CLAY, SOME GRAVEL, MEDIUM PLASTICITY, MOIST.		CL	0.5	PID=0 ppm α =60 ppm BT=0 cpm	
16.5 18.0	067353 08/22/91 08:35	8 9 11	18		FIRM OLIVE (2.5Y, 4/3) SILTY CLAY, SOME GRAVEL, MEDIUM PLASTICITY, MOIST, TRACE WOOD CHIPS.		CL	0.5	PID=2 ppm α =80 ppm BT=0 cpm	
18.0 19.5	067354 08/22/91 08:40	100	4		FIRM OLIVE (5Y, 5/4) SILTY CLAY, SOME GRAVEL, MEDIUM PLASTICITY, MOIST, INPENETRABLE STRUCK, AUGER TO 20.0'		CL	2.0	PID=0 ppm α =80 ppm BT=0 cpm	
NOTES:										
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER: 602 3.7					PROJECT NAME: CRU2 PHASE I FIELD INVESTIGATION					
BORING NUMBER: 1792					COORDINATES: NORTH 477280.15 EAST 1379372.54					
GROUND ELEVATION: 566.1					GWL: Depth	Date/Time		DATE STARTED: 21-AUG-91		
ENGINEER/GEOLOGIST: J. LEAR					Depth	Date/Time		DATE COMPLETE: 22-AUG-91		
DRILLING METHOD: AUGER										
D E P T H	S A M P L E	S A D T I E	B L O W S E	R E C O V E R Y	I N C H E S		S Y S M C B S O L	T S F	REMARKS	
20.0 21.5	067355 08/22/91 14:00	8 11 12	12	FIRM, OLIVE (5Y, 5/4) SILTY CLAY, SOME GRAVEL, MEDIUM PLASTICITY, MOIST.					CL	.75 PID=0 ppm α =80 ppm $\beta\Gamma$ =0 cpm
21.5 23.0	067356 08/22/91 14:05	17 19 21	18	FIRM OLIVE GRAY (5Y, 4/2) CLAY, TRACE GRAVEL, LOW TO MEDIUM PLASTICITY, MOIST.					CL	1.25 PID=0 ppm α =80 ppm $\beta\Gamma$ =0 cpm
23.0 24.5	067357 08/22/91 14:10	27 29 33	12	FIRM OLIVE GRAY (5Y, 4/2) CLAY, TRACE GRAVEL, LOW TO MEDIUM PLASTICITY, MOIST.					CL	1.25 PID=2 ppm α =80 ppm $\beta\Gamma$ =0 cpm
24.5 26.0	067358 08/22/91 14:15	36 42 39	0	NO RECOVERY					N/A	N/A
26.5 28.0	067359 08/22/91 14:20	18 18 22	6	FIRM, LIGHT OLIVE BROWN (2.5Y, 5/4) SILTY CLAY, SOME GRAVEL, TRACE SAND, MOIST.					CL	1.25 PID=0 ppm α =80 ppm $\beta\Gamma$ =0 cpm
28.0 29.5	067362 08/22/91 14:30	16 17 17	18	FIRM, LIGHT OLIVE BROWN (2.5Y, 5/4) SILTY CLAY, SOME GRAVEL, TRACE SAND, MOIST, DENSE (10YR, 4/5) BROWN CLAYEY SILT, MOIST.					CL ML	1.25 PID=0 ppm α =80 ppm $\beta\Gamma$ =0 cpm
29.5 31.0	067364 08/22/91 14:35	17 19 21	18	FIRM, LIGHT OLIVE BROWN (2.5Y, 5/4) SILTY CLAY, SOME GRAVEL, TRACE SAND, MOIST, DENSE (10YR, 4/5) BROWN CLAYEY SILT, MOIST.					ML	N/A PID=0 ppm α =80 ppm $\beta\Gamma$ =0 cpm
31.0 32.5	067365 08/22/91 16:15	36 35 50	18	FIRM, LIGHT OLIVE BROWN (2.5Y, 5/4) SILTY CLAY, SOME GRAVEL, TRACE SAND, MOIST, DENSE (10YR, 4/5) BROWN CLAYEY SILT, MOIST.					ML	N/A PID=0 ppm α =80 ppm $\beta\Gamma$ =0 cpm
32.5 34.0	067366 08/22/91 16:20	49 37 32	18	FIRM, DARK YELLOWISH BROWN (10YR, 4/6) SILTY CLAY LOW PLASTICITY.					CL	3.5 PID=0 ppm α =80 ppm $\beta\Gamma$ =0 cpm
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 602 3.7						PROJECT NAME: CRU2 PHASE I FIELD INVESTIGATION								
BORING NUMBER: 1793						COORDINATES: NORTH 477464.98 EAST 1379446.76			DATE: 15-AUG-91					
GROUND ELEVATION: 572.2						GWL: Depth	Date/Time		DATE STARTED: 15-AUG-91					
ENGINEER/GEOLOGIST: J. LEAR						Depth	Date/Time		DATE COMPLETE: 20-AUG-91					
DRILLING METHOD: AUGER														
D E P T H	S A M P L E	D A T E E E	B L O W S A M P L E	S A M P L E O N	R E C O V E R Y	I N C H E S		U S M C B S O L	T S F	REMARKS				
1.5	067331 08/15/91 10:15	4 11 25	16	DENSE, BROWN (10YR, 4/3) CLAYEY SILT, SOME GRAVEL, SOME ORGANICS, SL. MOIST.				ML	N/A	PID=0 ppm α =80 ppm BT=0 cpm				
1.5 3.0	067332 08/15/91 10:20	17 25 27	18	V. HARD, GRAY TO YELLOWISH BROWN (10YR, 5/1 TO 10YR 4/6) SILTY CLAY, TRACE GRAVEL, TRACE ORGANICS, LOW PLASTICITY, SL MOIST.				CL	>4.5	PID=0 ppm α =80 ppm BT=0 cpm				
3.0 4.5	067333 08/15/91 10:25	27 27 42	12	V. HARD, BROWN (10YR, 5/3) SILTY CLAY, SOME GRAVEL, TRACE ORGANICS, LOW PLAST, DRY.				CL	>4.5	PID=0 ppm α =80 ppm BT=0 cpm				
4.5 6.0	067334 08/15/91 10:30	40 37 28	16	V. HARD, V. DARK GRAYISH BROWN (10YR, 3/2) SILTY CLAY, SOME GRAVEL, TRACE ORGANICS, LOW PLASTICITY, SL MOIST.				CL	>4.5	PID=0 ppm α =80 ppm BT=0 cpm				
6.0 7.5	067335 08/20/91 10:30	90 33 26	17	V. HARD, BROWN TO DARK GRAY (10YR, 5/3 TO 10YR, 4/1) SILTY CLAY, SOME GRAVEL, TRACE ORGANICS, LOW PLAST, DRY TO SL MOIST.				CL	>4.5	PID=0 ppm α =80 ppm BT=0 cpm				
7.5 9.0	067336 08/20/91 10:35	26 20 23	18	HARD, YELLOWISH BROWN (10YR, 5/6) MOTTLED SILTY CLAY, TRACE SAND, LOW PLASTICITY, MOIST.				CL	3.75	PID=0 ppm α =80 ppm BT=0 cpm				
9.0 10.5	067337 08/20/91 10:40	21 19 14	18	HARD, YELLOWISH BROWN (10YR, 5/6) MOTTLED SILTY CLAY, TRACE SAND, LOW PLASTICITY, MOIST, TRACE GRAVEL.				CL	3.75	PID=0 ppm α =80 ppm BT=0 cpm				
10.5 12.0	067338 08/20/91 10:45	14 19 21	12	HARD, YELLOWISH BROWN (10YR, 5/6) MOTTLED SILTY CLAY, TRACE SAND, LOW PLASTICITY, MOIST, TRACE GRAVEL, DENSE, BROWN (10YR, 5/3) SILT, SOME CLAY, MOIST.				CL ML	3.0	PID=0 ppm α =80 ppm BT=0 cpm				
12.0 13.5	067339 08/20/91 13:15	20 20 22	17	DENSE, BROWN (10YR, 5/3) SILT, SOME CLAY, MOIST, HARD, BROWN (10YR, 5/3) CLAYEY SILT, MOIST.				ML ML	N/A	PID=0 ppm α =80 ppm BT=0 cpm				
13.5 15.0	067340 08/20/91 13:20	18 21 32	18	HARD, BROWN (10YR, 5/3) CLAYEY SILT, MOIST, HARD, BROWN (10YR, 5/3) SILTY CLAY, TRACE GRAVEL, LOW PLASTICITY, MOIST.				ML CL	N/A 3.0	PID=0 ppm α =80 ppm BT=0 cpm				
NOTES:														
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable														

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION								
BORING NUMBER: 1941					COORDINATES: NORTH 477932.76 EAST 1379691.99			DATE: 26-APR-93					
GROUND ELEVATION: 578.8					GWL: Depth 2.6 Date/Time 26-Apr-93 13:30			DATE STARTED: 26-APR-93					
ENGINEER/GEOLOGIST: DEBES, BOYER					Depth 2.4 Date/Time			DATE COMPLETE: 26-APR-93					
DRILLING METHOD: HOLLOW STEM AUGER													
D E P T H	S A M P L E	D A T E E E	T M E E	B L O W S O N	R A M P L E R Y	I N C O V E R Y	S U Y S M C B S O L	T S F	REMARKS				
.5	112765 04/26/93 09:55	4		6	STIFF, LIGHT OLIVE BROWN (2.5YR,5/4) SILTY CLAY WITH SOME PEBBLES AND ROCK FRAGMENTS, LOW PLASTICITY, DRY			CL	1.25	PID=.5 ppm BT=80 cpm			
.5 1.0	112766 04/26/93 09:55	6		6	SAA			CL	1.25	PID=.5 ppm BT=80 cpm			
1.0 1.5	112767 04/26/93 09:55	9		2.	SAA			CL	1.25	PID=.5 ppm BT=80 cpm			
1.5 2.0	112768 04/26/93 10:00	7		6	VERY STIFF, OLIVE BROWN (2.5YR,4/4), SILTY CLAY WITH GRAVEL AND ROOTS, MED PLASTICITY, DRY			CL	2.5	PID=.5 ppm BT=60 cpm			
2.0 2.5	112769 04/26/93 10:00	11		6	SAA			CL	2.5	PID=.5 ppm BT=60 cpm			
2.5 3.0	112770 04/26/93 10:00	14		3	SAA			CL	2.5	PID=.5 ppm BT=60 cpm			
3.0 3.5	112771 04/26/93 10:05	16		6	VERY STIFF, YELLOWISH BROWN (10YR,5/4), SILTY CLAY WITH TRACE OF ORGANICS, MEDIUM PLASTICITY, DRY			CL	3.5	PID=.4 ppm BT=60 cpm			
3.5 4.0	112772 04/26/93 10:05	23		6	SAA			CL	3.5	PID=.4 ppm BT=60 cpm			
4.0 4.5	112773 04/26/93 10:05	21		6	SAA			CL	3.5	PID=.4 ppm BT=60 cpm			
4.5 5.0	112774 04/26/93 10:15	19		6	VERY STIFF, YELLOWISH BROWN (10YR,5/4), SILTY CLAY WITH GRAVEL, MEDIUM PLASTICITY, DRY			CL	2.5	PID=.5 ppm BT=60 cpm			
5.0 5.5	04/26/93 10:15	14		0	NO RECOVERY			N/A	N/A				
5.5 6.0	04/26/93 10:15	10		0	NO RECOVERY			N/A	N/A				
6.0 6.5	112775 04/26/93 10:22	12		6	VERY STIFF, LIGHT OLIVE BROWN (2.5YR,5/4) SILTY CLAY WITH IRON STAINS, MEDIUM PLASTICITY, SLIGHTLY MOIST			CL	2.5	PID=.5 ppm BT=60 cpm			
NOTES:										Boring Contractor: PENNSYLVANIA DRILLING Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: CME-45			
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable			

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 1941					COORDINATES: NORTH 477932.76 EAST 1379691.99			DATE: 26-APR-93			
GROUND ELEVATION: 578.8					GWL: Depth 2.6 Date/Time 26-Apr-93 13:30			DATE STARTED: 26-APR-93			
ENGINEER/GEOLOGIST: DEBES, BOYER					Depth 2.4 Date/Time			DATE COMPLETE: 26-APR-93			
DRILLING METHOD: HOLLOW STEM AUGER											
DEPTH H	SAMPLE E	DATE ON	BLOWS P	RECOVERY %				SYMBOL S M C B S O L	T S F	REMARKS	
6.5	04/26/93 10:22		15	0	NO RECOVERY			N/A	N/A		
7.0	04/26/93 10:22		18	0	NO RECOVERY			N/A	N/A		
7.5	112776 04/26/93 10:30	3	6	HARD, YELLOWISH BROWN (10YR,5/6), SILTY CLAY, MEDIUM PLASTICITY, SLIGHTLY MOIST			CL	4.0	PID=.5 ppm BT=60 cpm		
8.0	112777 04/26/93 10:30	5	3	SAA			CL	4.0	PID=.5 ppm BT=60 cpm		
8.5	04/26/93 10:30	9	0	NO RECOVERY			N/A	N/A	PID=.5 ppm BT=60 cpm		
9.0	112778 04/26/93 10:38	4	6	HARD, LIGHT YELLOWISH BROWN (10YR,5/6), SILTY CLAY, MEDIUM PLASTICITY, SLIGHTLY MOIST			CL	4.0	PID=.5 ppm BT=60 cpm		
9.5	112779 04/26/93 10:38	6	6	SAA			CL	4.0	PID=.5 ppm BT=60 cpm		
10.0	112780 04/26/93 10:38	7	6	HARD, LIGHT YELLOWISH BROWN (10YR,6/4) SILTY CLAY, MEDIUM PLASTICITY, MOIST			CL	4.0	PID=.5 ppm BT=60 cpm		
10.5	112781 04/26/93 10:55	14	6	OLIVE BROWN (2.5YR,6/6), CLAYEY SAND, MOIST			SC	N/A	PID=.5 ppm BT=60 cpm		
11.0	112781 04/26/93 10:55	19	6	SAA			SC	N/A	PID=.5 ppm BT=60 cpm		
11.5	04/26/93 10:55	27	0	NO RECOVERY			N/A	N/A	PID=.5 ppm BT=60 cpm		
12.0	112782 04/26/93 11:10	10	6	OLIVE BROWN (2.5YR,6/6), CLAYEY SAND, MOIST			SC	N/A	PID=.5 ppm BT=60 cpm		
12.5	112783 04/26/93 11:10	12	6	VERY STIFF, GRAY (2.5YR,6/1) SILTY CLAY, MEDIUM PLASTICITY, SLIGHTLY MOIST			CL	2.5	PID=.5 ppm BT=60 cpm		
NOTES:										Boring Contractor: PENNSYLVANIA DRILLING Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: CME-45	
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 1941					COORDINATES: NORTH 477932.76 EAST 1379691.99			DATE: 26-APR-93			
GROUND ELEVATION: 578.8					GWL: Depth 2.6 Date/Time 26-Apr-93 13:30			DATE STARTED: 26-APR-93			
ENGINEER/GEOLOGIST: DEBES, BOYER					Depth 2.4 Date/Time			DATE COMPLETE: 26-APR-93			
DRILLING METHOD: HOLLOW STEM AUGER											
D E P T H	S A D T M P L E	B L O W I M E E	S A M P L E O N	R E C O V E R Y				S U Y S M C B S O L	T S F	REMARKS	
13.0 13.5	112784 04/26/93 11:10	13	6	SAA				CL	2.5	PID=.5 ppm BI=60 cpm	
NOTES:										Boring Contractor: PENNSYLVANIA DRILLING Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: CME-45	
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1942				COORDINATES: NORTH 477662.53 EAST 1379627.53			DATE: 13-APR-93	
GROUND ELEVATION: 576.5				GWL: Depth	Date/Time		DATE STARTED: 13-APR-93	
ENGINEER/GEOLOGIST: SMITH, D O BRIE				Depth	Date/Time		DATE COMPLETE: 16-APR-93	
DRILLING METHOD: AUGER								
DEPTH	SAMPLE	SAT	BLOW COUNT	RECOVERY	INCHES	SYMBOL	T/S F	REMARKS
.5	110619 04/13/93 09:10	7	5	VERY STIFF, (2.5Y,5/6) LIGHT OLIVE BROWN, CLAY WITH GRAVEL, ORGANICS, CEMENT, NO PLASTICITY, DRY			CL	2.75 PID=0 ppm BT=40 cpm
.5 1.0	04/13/93 09:10	9	0	NO RECOVERY			N/A	N/A
1.0 1.5	04/13/93 09:10	9	0	NO RECOVERY			N/A	N/A
1.5 2.0	110620 04/13/93 09:20	12	6	HARD, (2.5Y,5/6) LIGHT OLIVE BROWN, GRAVELLY CLAY, NO PLASTICITY, DRY			CL	4.5 PID=0 ppm BT=60 cpm
2.0 2.5	110621 04/13/93 09:20	27	6	SAA, VERY STIFF			CL	3.75 PID=0 ppm BT=60 cpm
2.5 3.0	04/13/93 09:20	29	0	NO RECOVERY			N/A	N/A
3.0 3.5	110622 04/13/93 09:28	24	6	HARD, (2.5Y,6/6), OLIVE YELLOW, GRAVELLY CLAY, NO PLASTICITY, DRY			CL	4.0 PID=0 ppm BT=60 cpm
3.5 4.0	110623 04/13/93 09:28	30	6	SAA, VERY STIFF			CL	3.75 PID=0 ppm BT=60 cpm
4.0 4.5	110624 04/13/93 09:28	28	5	STIFF, (2.5Y,6/6) OLIVE YELLOW, GRAVELLY CLAY, LOW PLASTICITY, SLIGHTLY MOIST			CL	1.25 PID=0 ppm BT=60 cpm
4.5 5.0	110625 04/13/93 09:45	4	6	VERY STIFF, (2.5Y,6/6) OLIVE YELLOW, GRAVELLY CLAY WITH CONCRETE, NO PLASTICITY, SLIGHTLY MOIST			CL	3.0 PID=0 ppm BT=60 cpm
5.0 5.5	04/13/93 09:45	8	0	NO RECOVERY			N/A	N/A
5.5 6.0	04/13/93 09:45	6	0	NO RECOVERY			N/A	N/A
6.0 6.5	110626 04/13/93 13:25	12	6	HARD, (2.5Y,6/4) LIGHT OLIVE BROWN, CLAY, NO PLASTICITY, SLIGHTLY MOIST			CL	4.25 PID=0 ppm BT=60 cpm
NOTES:				Driller: KEVIN MYERS, DONNY ARTHUR Drilling Equipment: ACKER SENTRY				
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable								

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1942					COORDINATES: NORTH 477662.53 EAST 1379627.53			DATE: 13-APR-93	
GROUND ELEVATION: 576.5					GWL: Depth	Date/Time		DATE STARTED: 13-APR-93	
ENGINEER/GEOLOGIST: SMITH, D O BRIE					Depth	Date/Time		DATE COMPLETE: 16-APR-93	
DRILLING METHOD: AUGER									
DEPTH	SAMPLE	DATE	BLOW COUNT	RECOVERY	SYNTHETIC	TEST	REMARKS		
H	L	E	E	O	M	F			
6.5	110627 04/13/93 13:25	12	3	SAA	CL	4.0	PID=0 ppm BT=60 cpm		
7.0	04/13/93 13:25	18	0	NO RECOVERY	N/A	N/A			
7.5	110628 04/13/93 13:45	18	2	MEDIUM STIFF, (2.5Y,6/4) LIGHT YELLOWISH BROWN, CLAY, LOW PLASTICITY, WET	CL	.75	PID=0 ppm BT=40 cpm		
8.0	04/13/93 13:45	30	0	NO RECOVERY	N/A	N/A			
8.5	04/13/93 13:45	27	0	NO RECOVERY	N/A	N/A			
9.0	110629 04/13/93 13:55	8	6	STIFF, (2.5Y,6/4) LIGHT YELLOWISH BROWN MOTTLED WITH GRAY CLAY, LOW PLASTICITY, SLIGHTLY MOIST	CL	1.5	PID=0 ppm BT=60 cpm		
9.5	110630 04/13/93 13:55	18	6	SAA, HARD	CL	4.25	PID=0 ppm BT=60 cpm		
10.0	110631 04/13/93 13:55	30	6	SAA, VERY STIFF	CL	3.25	PID=0 ppm BT=60 cpm		
10.5	110632 04/13/93 14:15	1	6	STIFF, (2.5Y,6/4) LIGHT YELLOWISH BROWN, MOTTLED WITH GRAY CLAY, LOW PLASTICITY, MOIST	CL	1	PID=0 ppm BT=60 cpm		
11.0	110633 04/13/93 14:15	1	6	SAA, (2.5Y,5/1) GRAY	CL	1.0	PID=0 ppm BT=60 cpm		
11.5	110634 04/13/93 14:15	21	6	SAA BOTTOM 2" GRAY SILT	CL ML	1	PID=0 ppm BT=60 cpm		
12.0	110635 04/13/93 14:25	7	6	DENSE, (2.5Y,6/6) OLIVE YELLOW, SILT WITH AN INCH SAND LAYER IN BETWEEN, FINE, WET	SM	N/A	PID=0 ppm BT=60 cpm		
12.5	110636 04/13/93 14:25	18	3	SAA	SM	N/A	PID=0 ppm BT=60 cpm		
NOTES:									
Driller: KEVIN MYERS, DONNY ARTHUR Drilling Equipment: ACKER SENTRY									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 1942					COORDINATES: NORTH 477662.53 EAST 1379627.53			DATE: 13-APR-93			
GROUND ELEVATION: 576.5					GWL: Depth		Date/Time		DATE STARTED: 13-APR-93		
ENGINEER/GEOLOGIST: SMITH, D O BRIE					Depth		Date/Time		DATE COMPLETE: 16-APR-93		
DRILLING METHOD: AUGER											
D E P T H	S A M P L E	D A T E E E	B L O W S P E N	R E A C O V E R Y				S U S M C B S O L	T S F	REMARKS	
13.0 13.5		04/13/93 14:25	21	0	NO RECOVERY			N/A	N/A		
13.5 14.0	110637 04/13/93 14:45		5	6	MEDIUM DENSE, (2.5Y,6/6) OLIVE YELLOW, SILT AND SAND MIXTURE, WET			SM	N/A	PID=0 ppm BT=60 cpm	
14.0 14.5	110638 04/13/93 14:45		8	6	STIFF, (2.5Y,5/1) GRAY CLAY WITH GRAVEL SAND AND SILT, NO PLASTICITY, MOIST			CL	1.25	PID=0 ppm BT=60 cpm	
14.5 15.0	110639 04/13/93 14:45		8	6	SAA, LESS SAND			CL	1.25	PID=0 ppm BT=60 cpm	
15.0 15.5	110640 04/13/93 14:55		5	6	VERY STIFF, (2.5Y,5/1) GRAY, GRAVELLY SANDY CLAY, NO PLASTICITY, DRY			CL	3.0	PID=0 ppm BT=60 cpm	
15.5 16.0	110641 04/13/93 14:55		5	4	SAA			CL	3.0	PID=0 ppm BT=60 cpm	
16.0 16.5	04/13/93 14:55		14	0	NO RECOVERY			N/A	N/A		
16.5 17.0	110642 04/15/93 08:55		4	6	VERY STIFF, (2.5Y,5/1) GRAY, GRAVELLY CLAY, LOW PLASTICITY, DRY			CL	3.0	PID=0 ppm BT=50 cpm	
17.0 17.5	110643 04/15/93 08:55		4	6	SAA			CL	3.5	PID=0 ppm BT=50 cpm	
17.5 18.0	110644 04/15/93 08:55		14	3	SAA			CL	3.5	PID=0 ppm BT=50 cpm	
NOTES:										Driller: KEVIN MYERS, DONNY ARTHUR Drilling Equipment: ACKER SENTRY	
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2.RI PHASE II FIELD INVESTIGATION							
BORING NUMBER: 1954				COORDINATES: NORTH 477864.72 EAST 1379400.07			DATE: 14-MAY-93				
GROUND ELEVATION: 574.95				GWL: Depth	Date/Time		DATE STARTED: 14-MAY-93				
ENGINEER/GEOLOGIST: D.O'BRIEN				Depth	Date/Time		DATE COMPLETE: 15-MAY-93				
DRILLING METHOD:											
D E P T H	S A M P L E	A D T E E	T M E E	B L O S P O N	S A M P L E R Y	R E C O V E R Y	I N C H E S	S U Y S M C B S O L	T S F	REMARKS	
10.0	113103 05/14/93 10:00	5 7	15	STIFF, (2.5Y5/1) GRAY GRAVELLY CLAY, LOW PLASTICITY, SLIGHTLY MOIST					CL	1.75	PID=0 ppm BT=80 cpm
11.5											
15.0	05/14/93 00:00	7 13 23	0	NO RECOVERY					N/A	N/A	
16.5											
NOTES:										Boring Contractor: PENNSYLVANIA DRILLING Driller: JEFF BENTLEY, BILL SEBERT Drilling Equipment: ACKER SENTRY SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1964			COORDINATES: NORTH 477418.89 EAST 1379418.28			DATE: 17-APR-93			
GROUND ELEVATION: 571.6			GWL: Depth Date/Time			DATE STARTED: 17-APR-93			
ENGINEER/GEOLOGIST: MUSA KESEKOIV			Depth Date/Time			DATE COMPLETE: 17-APR-93			
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E E	B L O W S O N	S A M P L E R E V E R Y	I N C O R E H E R Y		S U Y S M C B S O L	T S F	REMARKS
.5	112643 04/17/93 09:00	4	6		MEDIUM STIFF, (10YR4/1) DARK GRAY, PEAT WITH HIGH ORGANIC CONTENT, MOIST		PT	1	PID=5.2 ppm BT=40 cpm
.5 1.0	112644 04/17/93 09:00	4	6		VERY STIFF, (10YR5/3) BROWN, SILTY CLAY WITH PEBBLES, MEDIUM TO HIGH PLASTICITY, MOIST		CH	2	PID=5.2 ppm BT=40 cpm
1.0 1.5	04/17/93 00:00	12	0		NO RECOVERY		N/A	N/A	
1.5 2.0	112645 04/17/93 09:10	8	6		SAA		CH	2	PID=6.2 ppm BT=40 cpm
2.0 2.5	112646 04/17/93 09:10	9	6		SAA		CH	2	PID=6.2 ppm BT=40 cpm
2.5 3.0	04/17/93 00:00	14	0		NO RECOVERY		N/A	N/A	
3.0 3.5	112647 04/17/93 09:20	8	6		VERY STIFF, (10YR4/2) DARK GRAYISH BROWN, SILTY CLAY WITH SOME PEBBLES, MEDIUM TO HIGH PLASTICITY, MOIST		CH	1.5	PID=4.2 ppm BT=40 cpm
3.5 4.0	112647 04/17/93 09:20	9	6		SAA		CH	1.5	PID=4.2 ppm BT=40 cpm
4.0 4.5	112647 04/17/93 09:20	12	6		VERY STIFF, (10YR4/1) DARK GRAY, GRAVELLY SILTY CLAY WITH SOME PEBBLES, LOW PLASTICITY, DRY TO MOIST		CL	4	PID=4.2 ppm BT=40 cpm
4.5 5.0	112647 04/17/93 09:20	22	6		SAA		CL	4	PID=4.2 ppm BT=40 cpm
5.0 5.5	112648 04/17/93 09:30	8	6		VERY STIFF, (10YR4/3) BROWN, SILTY CLAY, MEDIUM TO HIGH PLASTICITY, SOME PEBBLES, MOIST		CH	2	PID=4.2 ppm BT=50 cpm
5.5 6.0	112648 04/17/93 09:30	9	6		SAA		CH	3.5	PID=4.2 ppm BT=50 cpm
6.0 6.5	112648 04/17/93 09:30	12	6		VERY STIFF, (10YR4/2) DARK GRAYISH BROWN, SILTY CLAY WITH SOME PEBBLES, MEDIUM PLASTICITY, MOIST		CL	4	PID=4.2 ppm BT=50 cpm

NOTES:

2 DRUMS FOR SOIL CUTTINGS, 1 DRUM FOR ALCONOK WATER, 2 BAGS OF 50 LBS. VOLCLAY, 1/2 BAG OF 94 LBS. CEMENT

Boring Contractor: PENNSYLVANIA DRILLING
Driller: MARTY WATRAL, DONNIE ARTHUR
Drilling Equipment: ACKER

SAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION											
BORING NUMBER: 1964					COORDINATES: NORTH 477418.89 EAST 1379418.28 DATE: 17-APR-93											
GROUND ELEVATION: 571.6					GWL: Depth Date/Time											
ENGINEER/GEOLOGIST: MUSA KESEKOIV					Depth Date/Time											
DRILLING METHOD: HOLLOW STEM AUGER																
D E P T H	S A M P L E	D A T E E E	B L O W N O R E	S A M P L E S P L E Y	R E C O V E R Y	I N C H E S	S Y S M C B S O L	T S F	REMARKS							
6.5 7.0	112649 04/17/93 09:45	12	6	VERY STIFF, (5YR4/2) OLIVE GRAY, SANDY SILTY CLAY, WITH SOME PEBBLES, LOW TO MEDIUM PLASTICITY, MOIST					CL	2	PID=3.6 ppm BT=50 cpm					
7.0 7.5	112650 04/17/93 09:45	20	6	SAA					CL	2	PID=3.6 ppm BT=50 cpm					
7.5 8.0	112651 04/17/93 09:45	28	6	VERY STIFF, (5YR4/2) OLIVE GRAY, SILTY CLAY WITH PEBBLES, MEDIUM TO HIGH PLASTICITY, MOIST(SOME COBBLES)					CH	2	PID=3.6 ppm BT=50 cpm					
8.0 8.5	112652 04/17/93 10:00	6	8	VERY STIFF, (5YR4/2) OLIVE GRAY, SILTY CLAY WITH COBBLES, MEDIUM TO HIGH PLASTICITY, MOIST					CH	2	PID=3.5 ppm BT=40 cpm					
8.5 9.0	112653 04/17/93 10:00	6	8	SAA					CH	2	PID=3.5 ppm BT=40 cpm					
9.0 9.5	04/17/93 10:00	0	9	NO RECOVERY					N/A	N/A						
9.5 10.0	04/17/93 10:00	0	15	NO RECOVERY					N/A	N/A						
10.0 10.5	112654 04/17/93 10:10	6	6	VERY STIFF, (5YR4/2) OLIVE GRAY, SILTY CLAY, FEW PEBBLES, MEDIUM TO HIGH PLASTICITY, MOIST					CH	3	PID=3.5 ppm BT=40 cpm					
10.5 11.0	112655 04/17/93 10:10	8	6	VERY STIFF, (10YR5/3) BROWN, CLAYEY SILT WITH SOME PEBBLES, LOW PLASTICITY, MOIST					ML	3	PID=3.5 ppm BT=40 cpm					
11.0 11.5	04/17/93 00:00	6	0	NO RECOVERY					N/A	N/A						
11.5 12.0	04/17/93 00:00	12	0	NO RECOVERY					N/A	N/A						
12.0 12.5	112656 04/17/93 10:20	9	6	VERY STIFF, (10YR5/3) BROWN, SANDY CLAYEY SILT WITH SOME PEBBLES, LOW PLASTICITY, MOIST					OL	3	PID=5.3 ppm BT=40 cpm					
12.5 13.0	112657 04/17/93 10:20	15	6	VERY STIFF, (10YR5/3) BROWN, CLAYEY SILT, LOW PLASTICITY, MOIST					OL	3.5	PID=5.3 ppm BT=40 cpm					
NOTES: 2 DRUMS FOR SOIL CUTTINGS, 1 DRUM FOR ALCONOK WATER, 2 BAGS OF 50 LBS. VOLCLAY, 1/2 BAG OF 94 LBS. CEMENT										Boring Contractor: PENNSYLVANIA DRILLING Driller: MARTY WATRAL, DONNIE ARTHUR Drilling Equipment: ACKER						
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable																

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1964					COORDINATES: NORTH 477418.89 EAST 1379418.28			DATE: 17-APR-93	
GROUND ELEVATION: 571.6					GWL: Depth	Date/Time		DATE STARTED: 17-APR-93	
ENGINEER/GEOLOGIST: MUSA KESEKOIV					Depth	Date/Time		DATE COMPLETE: 17-APR-93	
DRILLING METHOD: HOLLOW STEM AUGER									
DEPTH	SAMPLE	BLOW COUNT	RECOVERY	INCHES		SYMBOL	TSF	REMARKS	
13.0 13.5	112658 04/17/93 10:20	22	6	VERY STIFF, (10YR5/3) BROWN, SILTY CLAY, MEDIUM TO HIGH PLASTICITY, MOIST			CL	3.5	PID=5.3 ppm BT=40 cpm
13.5 14.0	04/17/93 00:00	35	0	NO RECOVERY			N/A	N/A	
14.0 14.5	112659 04/17/93 10:45	13	6	DENSE, (10YR5/2) GRAYISH BROWN, SILTY SAND, LOOSE, WITH SOME PEBBLES, MOIST			SM	N/A	PID=3.5 ppm BT=40 cpm
14.5 15.0	112660 04/17/93 10:45	13	6	VERY STIFF, (10YR5/3) BROWN, SILTY CLAY, MEDIUM PLASTICITY, MOIST			CL	3	PID=3.5 ppm BT=40 cpm
15.0 15.5	112661 04/17/93 10:45	21	6	VERY STIFF, (10YR5/3) BROWN, CLAYEY SILT, LOW PLASTICITY, WET			ML	.5	PID=3.5 ppm BT=40 cpm
15.5 16.0	112662 04/17/93 10:45	24	6	SAA			ML	.5	PID=3.5 ppm BT=40 cpm
16.0 16.5	112663 04/17/93 10:55	7	6	SAA			ML	.5	PID=3.2 ppm BT=40 cpm
16.5 17.0	112664 04/17/93 10:55	10	6	MEDIUM STIFF, (10YR5/3) BROWN, CLAYEY SILT, MEDIUM PLASTICITY, WET TO MOIST			ML	1	PID=3.2 ppm BT=40 cpm
17.0 17.5	112665 04/17/93 10:55	21	6	VERY STIFF, (10YR5/3) BROWN, SILTY CLAY, MEDIUM TO HIGH PLASTICITY, MOIST			CH	4	PID=3.2 ppm BT=40 cpm
17.5 18.0	112666 04/17/93 10:55	26	6	SAA			CH	4.5	PID=3.2 ppm BT=40 cpm
18.0 18.5	112667 04/17/93 13:30	8	6	HARD (10YR, 5/3) BROWN, CLAYEY SILT WITH SOME ANGULAR PEBBLES, MEDIUM PLASTICITY, MOIST			ML	5	PID=0 ppm BT=40 cpm
18.5 19.0	112668 04/17/93 13:30	17	6	SAA			ML	N/A	PID=0 ppm BT=40 cpm
19.0 19.5	112669 04/17/93 13:30	27	6	SAA			ML	5	PID=0 ppm BT=40 cpm
<p>NOTES: 2 DRUMS FOR SOIL CUTTINGS, 1 DRUM FOR ALCONOK WATER, 2 BAGS OF 50 LBS. VOLCLAY, 1/2 BAG OF 94 LBS. CEMENT</p>									
<p>Boring Contractor: PENNSYLVANIA DRILLING Driller: MARTY WATRAL, DONNIE ARTHUR Drilling Equipment: ACKER</p>									
<p>SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable.</p>									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1964			COORDINATES: NORTH 477418.89 EAST 1379418.28			DATE: 17-APR-93			
GROUND ELEVATION: 571.6			GWL: Depth Date/Time			DATE STARTED: 17-APR-93			
ENGINEER/GEOLOGIST: MUSA KESEKOIV			Depth Date/Time			DATE COMPLETE: 17-APR-93			
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E N	B L O W S P O N	S A M P L E R E V E R Y	R E C O V E R Y	I N C H E S	S U Y S M B S O L	T S F	REMARKS
19.5 20.0	112670 04/17/93 13:30	28	6	SAA			ML	5	PID=0 ppm BI=40 cpm
20.0 20.5	112671 04/17/93 13:50	5	6	VERY HARD, (10YR5/3) BROWN, CLAYEY SILT WITH COBBLES, MEDIUM TO HIGH PLASTICITY, MOIST			CH	4.5	PID=0 ppm BI=40 cpm
20.5 21.0	112671 04/17/93 13:50	16	6	DENSE, (10YR5/1) GRAY, LOOSE POORLY GRADED GRAVELLY SAND, WITH SOME PEBBLES, MOIST			SP	N/A	PID=0 ppm BI=40 cpm
21.0 21.5	112671 04/17/93 13:50	21	6	SAA			SP	N/A	PID=0 ppm BI=40 cpm
21.5 22.0	112671 04/17/93 13:50	22	6	SAA			SP	N/A	PID=0 ppm BI=40 cpm
22.0 22.5	112672 04/17/93 14:05	35	6	SAA			SP	N/A	PID=0 ppm BI=40 cpm
22.5 23.0	112673 04/17/93 14:05	15	6	SAA			SP	N/A	PID=0 ppm BI=40 cpm
23.0 23.5	112674 04/17/93 14:05	21	6	SAA			SP	N/A	PID=0 ppm BI=40 cpm
23.5 24.0	112674 04/17/93 14:05	33	6	SAA			N/A	N/A	PID=0 ppm BI=40 cpm
24.0 24.5	112676 04/17/93 14:05	21	6	SAA			SP	N/A	PID=0 ppm BI=40 cpm
24.5 25.0	112677 04/17/93 14:20	31	6	HARD, (10YR5/3) BROWN, SANDY CLAYEY SILT, WITH SOME PEBBLES, LOW PLASTICITY, MOIST			ML	4.5	PID=0 ppm BI=40 cpm
25.0 25.5	112678 04/17/93 14:20	30	6	VERY DENSE, (10YR5/1) GRAY, LOOSE POORLY GRADED SAND WITH SOME PEBBLES, MOIST			SP	N/A	PID=0 ppm BI=40 cpm
25.5 26.0	04/17/93 14:20	32	0	NO RECOVERY			N/A	N/A	

NOTES:

2 DRUMS FOR SOIL CUTTINGS, 1 DRUM FOR ALCONOK WATER, 2 BAGS OF 50 LBS. VOLCLAY, 1/2 BAG OF 94 LBS. CEMENT

Boring Contractor: PENNSYLVANIA DRILLING
Driller: MARTY WATRAL, DONNIE ARTHUR
Drilling Equipment: ACKERSAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1964					COORDINATES: NORTH 477418.89 EAST 1379418.28 DATE: 17-APR-93					
GROUND ELEVATION: 571.6					GWL: Depth Date/Time			DATE STARTED: 17-APR-93		
ENGINEER/GEOLOGIST: MUSA KESEKOIV					Depth Date/Time			DATE COMPLETE: 17-APR-93		
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E E N	T I M E S O N	B L O W S P L E Y	R E C O V E R Y	I N C H E S	S U Y S M C B S O L	T S F	REMARKS	
26.0	112679 04/17/93 14:40	9		6	SAA (25. TO 25.5 FT.)			SP	N/A	PID=0 ppm BT=40 cpm
26.5	112680 04/17/93 14:40	17		6	SAA			SP	N/A	PID=0 ppm BT=40 cpm
27.0	112681 04/17/93 14:40	11		6	SAA			SP	N/A	PID=0 ppm BT=40 cpm
27.5	112682 04/17/93 14:50	21		6	SAA			SP	N/A	PID=0 ppm BT=40 cpm
28.0	112683 04/17/93 14:50	21		6	SAA			SP	N/A	PID=0 ppm BT=40 cpm
28.5	112684 04/17/93 14:50	21		6	SAA			SP	N/A	PID=0 ppm BT=40 cpm
29.0	112685 04/17/93 15:10	20		6	SAA			SP	N/A	PID=0 ppm BT=40 cpm
29.5	112685 04/17/93 15:10	28		6	SAA			SP	N/A	PID=0 ppm BT=40 cpm
30.0	112685 04/17/93 15:10	23		6	SAA			SP	N/A	PID=0 ppm BT=40 cpm
30.5	112686 04/17/93 15:10	28		6	VERY DENSE, (10YR, 5/1) GRAY, LOOSE POORLY GRADED MEDIUM SAND, MOIST			SP	N/A	PID=0 ppm BT=40 cpm
31.0										
NOTES: 2 DRUMS FOR SOIL CUTTINGS, 1 DRUM FOR ALCONOK WATER, 2 BAGS OF 50 LBS. VOLCLAY, 1/2 BAG OF 94 LBS. CEMENT										Boring Contractor: PENNSYLVANIA DRILLING Driller: MARTY WATRAL, DONNIE ARTHUR Drilling Equipment: ACKER
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1965					COORDINATES: NORTH 477347.01 EAST 1379474.61 DATE: 21-APR-93				
GROUND ELEVATION: 574.1					GWL: Depth	Date/Time		DATE STARTED: 20-APR-93	
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 21-APR-93	
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D E E	T M E	B L O W S P L E O N	R E C O V E R Y	I N C H E S	S U S M C B S O L	T S F	REMARKS
.5	112735 04/20/93 09:20	4		6	MEDIUM DENSE, (2.5Y 5/6) LIGHT OLIVE BROWN, CLAYEY SILT, LOW PLASTICITY, ORGANIC, MATERIAL		ML	N/A	PID=0.6 ppm BI=60 cpm
1.0	112735 04/20/93 09:20	N/A	4	6	SAA		N/A ML	N/A	PID=0.6 ppm BI=60 cpm
1.5	112735 04/20/93 09:20	N/A	5	6	MEDIUM DENSE, (2.5Y 6/6) OLIVE YELLOW, SILTY SAND, MOIST-WET		N/A SM	N/A	PID=0.6 ppm BI=60 cpm
2.0	112735 04/20/93 09:20	N/A	5		SAA		N/A	N/A	PID=0.6 ppm BI=60 cpm
2.0	112736 04/20/93 09:30	N/A	18		SHELBY TUBE		N/A	N/A	
4.0	112737 04/20/93 10:10	12		6	VERY DENSE, (2.5Y 5/6) LIGHT OLIVE BROWN, CLAYEY SILT WITH GRAVEL, SLIGHTLY PLASTICITY, DRY		ML CL	N/A	PID=0.3 ppm BI=60 cpm
5.0	112737 04/20/93 10:10	11		6	SAA		ML CL	N/A	PID=0.3 ppm BI=60 cpm
5.5	112737 04/20/93 10:10	31		6	SAA		ML CL	N/A	PID=0.3 ppm BI=60 cpm
6.0	112737 04/20/93 10:10	24		2	SAA		ML CL	N/A	PID=0.3 ppm BI=60 cpm
6.0	112738 04/20/93 10:35	8		6	MEDIUM DENSE, (5Y 4/4) OLIVE, CLAYEY SILT WITH SAND AND GRAVEL, LOW MEDIUM PLASTICITY, MOIST		ML	N/A	PID=0.4 ppm BI=60 cpm
7.0	112739 04/20/93 10:35	12		6	SAA		ML	N/A	PID=0.4 ppm BI=60 cpm
7.5	04/20/93 10:35	15		0	NO RECOVERY		N/A	N/A	
7.5	112740 04/20/93 10:50	5		6	MEDIUM DENSE, (5GY 5/1) GREENISH GRAY, CLAYEY SILT, TRACE SAND AND GRAVEL, MOIST		ML	N/A	PID=0.8 ppm BI=80 cpm
NOTES:									
Driller: JOE RAAB, RODGE R DAVIS Drilling Equipment: CME-45									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1965					COORDINATES: NORTH 477347.01 EAST 1379474.61			DATE: 21-APR-93	
GROUND ELEVATION: 574.1					GWL: Depth		Date/Time		DATE STARTED: 20-APR-93
ENGINEER/GEOLOGIST: J BOYER					Depth		Date/Time		DATE COMPLETE: 21-APR-93
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E E	T I M E E E	B L O S P L E O N	R E C O V P R E V E Y	I N C H E S H E S	S U Y S M C B S O L	T S F	REMARKS
8.0		04/20/93 00:00	48	0			N/A	N/A	PID=0.8 ppm BT=80 cpm
9.0		112741 04/20/93 11:00	3	6	MEDIUM STIFF, (5Y,5/4) OLIVE SILTY CLAY, WITH GRAVEL AND SAND, MOIST-WET, BLACK CLAY MODULES		CL	1.0	PID=0.9 ppm BT=60 cpm
9.5		112742 04/20/93 11:00	3	4	SAA		CL	0.5	PID=0.9 ppm BT=60 cpm
10.0		04/20/93 00:00	4	0			N/A	N/A	PID=0.9 ppm BT=60 cpm
10.5		112743 04/20/93 13:00	6	6	MEDIUM STIFF, (56Y,4/1) DARK GREENISH GRAY, SILTY CLAY, TRACE GRAVEL MEDIUM TO HIGH PLASTICITY, BLACK CLAY NOPOLES , MOIST		CL	.75	PID=0.6 ppm BT=120 cpm
11.0		112744 04/20/93 13:00	7	6	SAA		CL	.75	PID=0.6 ppm BT=120 cpm
11.5		04/20/93 13:00	8	0			N/A	N/A	PID=0.6 ppm BT=120 cpm
12.0		112745 04/20/93 13:10	6	6	MEDIUM STIFF, (5Y,5/2) OLIVE GRAY, SILTY CLAY, TRACE GRAVEL, MEDIUM PLASTICITY, MOIST		CL	.5	PID=0 ppm BT=60 cpm
12.5		112746 04/20/93 13:10	8	6	SAA		CL	.75	PID=0 ppm BT=60 cpm
13.0		112747 04/20/93 13:10	8	6	MEDIUM STIFF, (5Y,3/2) DARK OLIVE GRAY, SILTY CLAY, MEDIUM PLASTICITY, MOIST		CL	.5	PID=0 ppm BT=60 cpm
13.5		112748 04/20/93 13:20	5	6	SAA		CL	.5	PID=0 ppm BT=60 cpm
14.0		112749 04/20/93 13:20	7	6	SAA		CL	.7	PID=0 ppm BT=60 cpm
14.5		112750 04/20/93 13:20	8	2	SAA		CL	.5	PID=0 ppm BT=60 cpm
NOTES:									
Driller: JOE RAAB, RODGE R DAVIS Drilling Equipment: CME-45									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION											
BORING NUMBER: 1965					COORDINATES: NORTH 477347.01 EAST 1379474.61											
GROUND ELEVATION: 574.1					GWL: Depth	Date/Time		DATE STARTED: 20-APR-93								
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 21-APR-93								
DRILLING METHOD: HOLLOW STEM AUGER																
D E P T H	S A M P L E	D A T E E E	B L O W S O N	S A M P L E	R E C O V E R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS						
15.0 15.5	112951 04/20/93 13:30	2		6	VERY SOFT, (5Y,3/2) DARK OLIVE GRAY, SILTY CLAY, TRACE GRAVEL, MEDIUM PLASTIC, MOIST					CL	.25	PID=0 ppm BT=60 cpm				
15.5 16.0	112752 04/20/93 13:30	3		6	SAA					CL	.25	PID=0 ppm BT=60 cpm				
16.0 16.5	04/20/93 00:00	3		0						N/A	N/A	PID=0 ppm BT=60 cpm				
16.5 17.0	112753 04/20/93 13:50	6		6	VERY SOFT, (5Y,3/2) DARK OLIVE GRAY, SILTY CLAY, TRACE GRAVEL, MEDIUM PLASTICITY, MOIST					CL	.25	PID=0 ppm BT=60 cpm				
17.0 17.5	04/20/93 00:00	50		0	SPLIT SPOON REFUSAL, HIT					N/A	N/A	PID=0 ppm BT=60 cpm				
17.5 18.0	04/20/93 00:00	N/A		0	DOLOMITE, COBBLE (APPEARS TO BE CONCRETE) CEMENTED GRAVEL					N/A	N/A	PID=0 ppm BT=60 cpm				
18.0 18.5	112754 04/20/93 14:30	12		6	VERY SOFT, (5Y,4/4) OLIVE, SILTY CLAY, MEDIUM PLASTICITY, MOIST, ALSO CONCRETE, WOOD CHIPS, AND TILE FRAGMENT					CL	0.25	PID=1.2 ppm BT=60 cpm				
18.5 19.0	04/20/93 00:00	12		0	NO RECOVERY					N/A	N/A					
19.0 19.5	04/20/93 00:00	12		0	NO RECOVERY					N/A	N/A					
19.5 20.0	112755 04/20/93 14:40	6		6	STIFF, (2.5Y,5/4) LIGHT OLIVE BROWN, SILTY CLAY, TRACE GRAVEL, LOW PLASTICITY, DRY					CL	1.5	PID=1.0 ppm BT=75 cpm				
20.0 20.5	112756 04/20/93 14:40	7		6	SAA					CL	1.75	PID=1.0 ppm BT=75 cpm				
20.5 21.0	04/20/93 00:00	10		0	NO RECOVERY					N/A	N/A					
21.0 21.5	112758 04/20/93 09:30	7		6	VERY SOFT, (5Y,4/3) OLIVE, SILTY CLAY, TRACE GRAVEL, SLIGHT PLASTICITY, MOIST					CL	.25	PID=1.7 ppm BT=60 cpm				
NOTES:										Driller: JOE RAAB, RODGE R DAVIS Drilling Equipment: CME-45						
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable						

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1965					COORDINATES: NORTH 477347.01 EAST 1379474.61			DATE: 21-APR-93	
GROUND ELEVATION: 574.1					GWL: Depth	Date/Time		DATE STARTED: 20-APR-93	
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 21-APR-93	
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D T M E E	B L O W S L E E	S A M P L E R E V E R Y	I N C H E S		S Y S M C B S O L	T S F	REMARKS
21.5	112759 04/20/93 09:30	9		6	STIFF, (10YR,4/6) DARK YELLOWISH BROWN, SILTY CLAY, TRACE GRAVEL, LOW PLASTICITY, MOIST		CL	2.5	PID=1.7 ppm BT=60 cpm
22.0	112760 04/20/93 09:30	21		6	SAA		CL	2.0	PID=1.7 ppm BT=60 cpm
22.5	112761 04/20/93 10:00	4		6	STIFF, (10YR,4/6) DARK YELLOWISH BROWN, SILTY CLAY, WITH GRAVEL, SLIGHT PLASTICITY, DRY		CL	1.5	PID=2 ppm BT=60 cpm
23.0	112761 04/20/93 10:00	7		6	DENSE, (10YR,5/4) YELLOWISH BROWN, CLAYEY SILT WITH GRAVEL, NO TO SLIGHT PLASTICITY, DRY		ML	N/A	PID=2 ppm BT=60 cpm
23.5	112761 04/20/93 10:00	16		6	SAA		ML	N/A	PID=2 ppm BT=60 cpm
24.0	112761 04/20/93 10:00	32		6	SAA		ML	N/A	PID=2 ppm BT=60 cpm
24.5	112762 04/20/93 10:20	N/A	N/A	SHELBY TUBE			N/A	N/A	
26.5	112763 04/20/93 11:00	7		6	DENSE, (10YR,5/6) YELLOWISH BROWN, POORLY GRADED SAND, WITH GRAVEL, DRY		SP	N/A	PID=0 ppm BT=40 cpm
27.0	112763 04/20/93 11:00	10		6	SAA		N/A SP	N/A	PID=0 ppm BT=40 cpm
27.5	112763 04/20/93 11:00	12		6	SAA		N/A SP	N/A	PID=0 ppm BT=40 cpm
28.0	112764 04/20/93 11:00	23		6	SAA		SP	N/A	PID=0 ppm BT=40 cpm
28.5	112764 04/20/93 11:00						SP	N/A	PID=0 ppm BT=40 cpm
NOTES:									
<p>Driller: JOE RAAB, RODGE R DAVIS Drilling Equipment: CME-45</p> <p>SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable</p>									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION											
BORING NUMBER: 1966					COORDINATES: NORTH 477240.00 EAST 1379500.34			DATE: 22-APR-93								
GROUND ELEVATION: 558					GWL: Depth	Date/Time		DATE STARTED: 21-APR-93								
ENGINEER/GEOLOGIST: J REAGAN					Depth	Date/Time		DATE COMPLETE: 22-APR-93								
DRILLING METHOD: HOLLOW STEM AUGER																
D E P T H	S A M P L E	D T M E E	B L O W S O N	S A M P L E	R E C O V E R Y	I N C H E S		S U Y S M B S O L	T S F	REMARKS						
.5	112854 04/21/93 09:50	2		6	SOFT (2.5Y 3/1) VERY DARK GRAY, SILTY FINE SAND, LOW PLASTICITY, MOIST					ML	.5	PID=16.1 ppm BT=300 cpm				
.5 1.0	04/21/93 09:50	5		6	SAA SAMPLE TAKEN BY IH PERSONNEL					ML	.5	PID=16.1 ppm BT=60 cpm				
1.0 1.5	112855 04/21/93 09:50	8		2	STIFF (2.5Y 5/4) LIGHT OLIVE BROWN, (2.5Y 3/1) VERY DARK GRAY, MOTTLES, SILTY CLAY, SLIGHTLY PLASTIC, MOIST					CL	1	PID=16.1 ppm BT=200 cpm				
1.5 2.0	112856 04/21/93 10:00	6		6	VERY STIFF (2.5Y 5/4) LIGHT OLIVE BROWN, (2.5Y 3/1) VERY DARK GRAY MOTTLES, SILTY CLAY, SLIGHTLY PLASTIC, MOIST					CL	2.5	PID=1 ppm BT=60 cpm				
2.0 2.5	112857 04/21/93 10:00	12		6	STIFF (2.5Y 5/4) LIGHT OLIVE BROWN, (2.5Y 3/1) VERY DARK GRAY MOTTLES, SILTY CLAY, SLIGHTLY PLASTIC, MOIST					CL	1.75	PID=1 ppm BT=60 cpm				
2.5 3.0	112858 04/21/93 10:35	4		6	SAA					CL	2	PID=1 ppm BT=60 cpm				
3.0 3.5	112858 04/21/93 10:35	6		6	SAA					CL	2.0	PID=0 ppm BT=60 cpm				
3.5 4.0	112858 04/21/93 10:35	8		6	SAA					CL	2	PID=0 ppm BT=60 cpm				
4.0 4.5	112858 04/21/93 10:35	8		6	SAA					CL	2	PID=0 ppm BT=60 cpm				
4.5 5.0	112859 04/21/93 10:50	4		6	STIFF (2.5Y 5/4) LIGHT OLIVE BROWN, SILTY CLAY, SLIGHTLY PLASTIC, MOIST					CL	1.25	PID=0 ppm BT=50 cpm				
5.0 5.5	112859 04/21/93 10:50	4		6	SAA					CL	1	PID=0 ppm BT=50 cpm				
5.5 6.0	112859 04/21/93 10:50	5		6	MEDIUM STIFF, SAA					CL	0.5	PID=0 ppm BT=50 cpm				
6.0 6.5	112859 04/21/93 10:50	5		6	SAA					CL	1.5	PID=0 ppm BT=50 cpm				
NOTES: BACKGROUND: HNU = 0.5 PPM BETA GAMMA 60 CPM										Boring Contractor: PENNSYLVANIA DRILLING Driller: MARTY WATRAL, BOB DEILEY Drilling Equipment: ACKER SOIL SENTRY						
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable																

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1966					COORDINATES: NORTH 477240.00 EAST 1379500.34					
GROUND ELEVATION: 558					GWL: Depth	Date/Time		DATE STARTED: 21-APR-93		
ENGINEER/GEOLOGIST: J REAGAN					Depth	Date/Time		DATE COMPLETE: 22-APR-93		
DRILLING METHOD: HOLLOW STEM AUGER										
DEPTH	SAMMATEE	DIA BLEE	BLOWS ON	TIME HRS	RECOVERY	INCHES		SYMBOL	TYP	REMARKS
6.5	112860 04/21/93 13:30	N/A	N/A		SHELBY TUBE			N/A	N/A	
8.5	112861 04/21/93 13:45	2	6		STIFF (2.5Y 4/3) OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, MOIST			CL	1.25	
9.0	112862 04/21/93 13:45	2	6		STIFF (2.5Y 4/2) DARK GRAYISH BROWN, SILTY CLAY, LOW PLASTICITY, MOIST			CL	1.0	PID=0 ppm BT=50 cpm
9.5	112863 04/21/93 13:45	4	4		SAA			CL	1.25	PID=0 ppm BT=50 cpm
10.0	112864 04/21/93 14:00	3	6		STIFF(2.5Y 4/2) DARK GRAYISH BROWN, (2.5Y 5/1) GRAY MOTTLES, SILTY CLAY, LOW PLASTICITY, MOIST, GRAVELS			CL	1.0	PID=0 ppm BT=50 cpm
10.5	112865 04/21/93 14:00	3	6		SAA			CL	1.0	PID=0 ppm BT=50 cpm
11.0	112866 04/21/93 14:00	3	6		SAA			CL	1.0	PID=0 ppm BT=50 cpm
11.5	112867 04/21/93 14:05	7	6		STIFF, (2.5Y 4/4) OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, MOIST			CL	1.25	PID=0 ppm BT=50 cpm
12.0	112867 04/21/93 14:05	8	6		STIFF, (2.5Y 4/4) OLIVE BROWN, (2.5Y 5/6) LIGHT OLIVE BROWN MOTTLES, SILTY CLAY, SLIGHTLY PLASTIC, GRAVELS			CL	1.25	
12.5	112867 04/21/93 14:05	10	6		SAA			CL	1.5	
13.0	112868 04/21/93 14:30	N/A	N/A		SHELBY TUBE			N/A	N/A	
15.0	112869 04/21/93 14:50	3	6		STIFF, (2.5Y 4/4) OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, MOIST GRAVELS			CL	1.0	PID=1.8 ppm BT=60 cpm
15.5	112870 04/21/93 14:50	5	6		SAA			CL	2.0	PID=1.8 ppm BT=60 cpm

NOTES:

BACKGROUND: HNU = 0.5 PPM BETA GAMMA 60 CPM

Boring Contractor: PENNSYLVANIA DRILLING
 Driller: MARTY WATRAL, BOB DEILEY
 Drilling Equipment: ACKER SOIL SENTRY

SAA = Same as Above
 PID = Photoionization Detector
 N/A = Not Applicable,

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1966				COORDINATES: NORTH 477240.00 EAST 1379500.34			DATE: 22-APR-93		
GROUND ELEVATION: 558				GWL: Depth	Date/Time		DATE STARTED: 21-APR-93		
ENGINEER/GEOLOGIST: J REAGAN				Depth	Date/Time		DATE COMPLETE: 22-APR-93		
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A D M P L E	D T I M E E E	B L O W S A M P L E O N	R E C O V P L E R Y	I N C H E S	U S M C B S Y S M B O L	T S F	REMARKS	
16.0	112871 04/21/93 14:50	12	6	STIFF, (5GY 4/1) DARK GREENISH GRAY, SILTY CLAY, LOW PLASTICITY, MOIST, GRAVELS			CL	1.5	PID=1.8 ppm BT=60 cpm
16.5	112872 04/21/93 15:00	3	6	SAA			CL	1.5	PID=1.7 ppm BT=50 cpm
17.0	112873 04/21/93 15:00	10	6	SAA			CL	1.5	PID=1.7 ppm BT=50 cpm
17.5	04/21/93 15:00	14	0	NO RECOVERY			N/A	N/A	
18.0	04/21/93 15:00	20	0	NO RECOVERY			N/A	N/A	
18.5	04/21/93 15:00	25	0	NO RECOVERY			N/A	N/A	
19.0	04/21/93 15:00	25	0	NO RECOVERY			N/A	N/A	
19.5	112874 04/21/93 15:40	12	6	VERY STIFF, (10YR 3/1) VERY DARK GRAY, SILTY CLAY, LOW PLASTICITY, MOIST			CL	3.0	PID=0 ppm BT=50 cpm
20.0	112875 04/21/93 15:40	20	6	VERY STIFF, (2.5Y 4/4) OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, MOIST			CL	4.0	PID=0 ppm BT=50 cpm
20.5	112876 04/21/93 15:40	24	6	SAA			CL	4.5	PID=0 ppm BT=50 cpm
21.0	112878 04/22/93 09:20	6	6	STIFF, (2.5Y 4/4) OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, MOIST			CL	1.5	PID=0 ppm BT=50 cpm
21.5	112879 04/22/93 09:20	6	6	VERY STIFF, (2.5Y 4/4) OLIVE BROWN, SILTY CLAY, SLIGHTLY PLASTIC, MOIST			CL	2.5	PID=0 ppm BT=50 cpm
22.0	04/22/93 09:20	12	0	NO RECOVERY			N/A	N/A	

NOTES:

BACKGROUND: HNU = 0.5 PPM BETA GAMMA 60 CPM

Boring Contractor: PENNSYLVANIA DRILLING
Driller: MARTY WATRAL, BOB DEILEY
Drilling Equipment: ACKER SOIL SENTRYSAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable,

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION								
BORING NUMBER: 1966					COORDINATES: NORTH 477240.00 EAST 1379500.34								
GROUND ELEVATION: 558					GWL: Depth	Date/Time		DATE STARTED: 21-APR-93					
ENGINEER/GEOLOGIST: J REAGAN					Depth	Date/Time		DATE COMPLETE: 22-APR-93					
DRILLING METHOD: HOLLOW STEM AUGER													
D E P T H	S A M P L E	D A T E E E	T M E S P L E	B L O W M O N	R E C O V E R Y	I N C H E S	S U S M C B S O L	T S F	REMARKS				
22.5	112880 04/22/93 09:40	8		6	VERY STIFF, (2.5Y 3/2) VERY DARK GRAYISH BROWN, SILTY CLAY, SLIGHTLY PLASTIC, MOIST			CL	3.5	PID=0 ppm BT=50 cpm			
23.0	112881 04/22/93 09:40	8		6	STIFF, (10YR 4/3) BROWN, SILTY CLAY, LOW PLASTICITY, MOIST, SOME SAND			CL	1.5	PID=0 ppm BT=50 cpm			
23.5	112882 04/22/93 09:40	12		6	SAA			CL	1.5	PID=0 ppm BT=50 cpm			
24.0	112883 04/22/93 09:55	8		6	SAA			CL	1.5	PID=0 ppm BT=50 cpm			
24.5	112883 04/22/93 09:55	10		6	SAA			CL	1.5	PID=0 ppm BT=50 cpm			
25.0	112884 04/22/93 09:55	17		6	MEDIUM DENSE, (10YR 4/3) BROWN, SAND-SILT-GRAVEL MIXTURE, LOW PLASTICITY, MOIST			GM	N/A	PID=0 ppm BT=50 cpm			
NOTES: BACKGROUND: HNU = 0.5 PPM BETA GAMMA 60 CPM										Boring Contractor: PENNSYLVANIA DRILLING Driller: MARTY WATRAL, BOB DEILEY Drilling Equipment: ACKER SOIL SENTRY			
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable													

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1967					COORDINATES: NORTH 477293.90 EAST 1379393.85				
GROUND ELEVATION: 568.2					GWL: Depth	Date/Time		DATE STARTED: 18-APR-93	
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 19-APR-93	
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D T H E E	B L O W S O N	S A M P L E R E C O V E R Y	I N C H E S		S Y U S M C B S O L	T S F	REMARKS
.5	112638 04/18/93 13:10	9		6	MEDIUM DENSE, (2.5Y5/4) LIGHT OLIVE BROWN, CLAYEY SILT, SLIGHT MOIST, LOW PLASTICITY		ML	N/A	PID=0 ppm BT=75 cpm
.5	112639 04/18/93 13:10	7		6	SAA		ML	N/A	PID=0 ppm BT=75 cpm
1.0	112640 04/18/93 13:10	10		6	SAA		ML	N/A	PID=0 ppm BT=75 cpm
1.5	112641 04/18/93 13:20	11		6	MEDIUM DENSE, (2.5Y4/4) OLIVE BROWN, CLAYEY SILT WITH GRAVEL, SLIGHT PLASTICITY, SLIGHTLY MOIST		ML	N/A	PID=0 ppm BT=75 cpm
2.0	112642 04/18/93 13:20	10		6	SAA		ML	N/A	PID=0 ppm BT=60 cpm
2.5	112693 04/18/93 13:20	17		6	SAA		ML	N/A	PID=0 ppm BT=60 cpm
3.0	112694 04/18/93 13:35	4		6	MEDIUM DENSE, (2.5Y4/4) OLIVE BROWN, CLAYEY SILT TRACE GRAVEL, SLIGHT PLASTICITY, SLIGHT MOIST		ML	N/A	PID=0.2 ppm BT=75 cpm
3.5	112695 04/18/93 13:35	12		6	SAA		ML	N/A	PID=0 ppm BT=75 cpm
4.0	04/18/93 00:00	15		0	NO RECOVERY		N/A	N/A	
4.5	112696 04/18/93 13:45	4		6	VERY STIFF, (2.5Y5/4) LIGHT OLIVE BROWN, SILTY CLAY, TRACE GRAVEL, LOW PLASTICITY, SLIGHT MOIST		CL	2.5	PID=1.2 ppm BT=100 cpm
5.0	112696 04/18/93 13:45	14		6	STIFF, (2.5Y5/4) LIGHT OLIVE BROWN, SILTY CLAY, TRACE GRAVEL, LOW PLASTICITY, SLIGHTLY MOIST		CL	1.5	PID=1.2 ppm BT=100 cpm
5.5	04/18/93 00:00	17		4	PUSH ROCK LOW RECOVERY		N/A	N/A	PID=1.2 ppm BT=100 cpm
6.0	04/18/93 00:00	28		0	NO RECOVERY		N/A	N/A	
NOTES:									
Driller: JOE RAAB, RODGER DAVIS Drilling Equipment: CME-45									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION								
BORING NUMBER: 1967					COORDINATES: NORTH 477293.90 EAST 1379393.85								
GROUND ELEVATION: 568.2					GWL: Depth	Date/Time		DATE STARTED: 18-APR-93					
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 19-APR-93					
DRILLING METHOD: HOLLOW STEM AUGER													
D E P T H	S A M P L E	D A T E M E E	B L O W S L E N	S A M P L E R Y	R E C O V E R Y	I N C H E S	S Y U S M C B S O L	T S F	REMARKS				
6.5 7.0	112696 04/18/93 13:45	7		6	VERY DENSE, (2.5Y5/4) LIGHT OLIVE BROWN, CLAYEY SILT WITH GRAVEL, LOW PLASTICITY, SLIGHTLY MOIST			ML	N/A	PID=1.1 ppm BT=75 cpm			
7.0 7.5	112696 04/18/93 13:45	18		6	SAA			ML	N/A	PID=1.1 ppm BT=75 cpm			
7.5 8.0	112697 04/18/93 13:50	27		6	VERY DENSE, (2.5Y5/4) LIGHT OLIVE BROWN, CLAYEY SILT WITH GRAVEL, LOW PLASTICITY, SLIGHT MOIST			ML	N/A	PID=1.1 ppm BT=75 cpm			
8.0 8.5	112698 04/18/93 13:50	24		4	SAA			N/A	N/A	PID=1.1 ppm BT=75 cpm			
8.5 9.0	112699 04/18/93 14:05	4		6	MEDIUM DENSE, (2.5Y5/4) LIGHT OLIVE BROWN, CLAYEY SILT, TRACE GRAVEL, LOW PLASTICITY, SLIGHTLY MOIST			ML	N/A	PID=1.2 ppm BT=70 cpm			
9.0 9.5	112700 04/18/93 14:05	5		6	SAA			ML	N/A	PID=1.2 ppm BT=70 cpm			
9.5 10.0	04/18/93 00:00	6		0	NO RECOVERY			N/A	N/A				
10.0 10.5	112701 04/18/93 14:25	3		6	SAA			ML	N/A	PID=2.5 ppm BT=80-90 cpm			
10.5 11.0	112702 04/18/93 14:25	7		6	MEDIUM DENSE, (5Y5/3) OLIVE, CLAYEY SILT, TRACE GRAVEL AND ORGANICS, LOW PLASTICITY, SLIGHTLY MOIST			ML	N/A	PID=2.5 ppm BT=80-90 cpm			
11.0 11.5	112703 04/18/93 14:25	9		4	SAA			ML	N/A	PID=2.5 ppm BT=80-90 cpm			
11.5 13.0	04/18/93 00:00	10 10 15	N/A	NO RECOVERY				N/A	N/A				
13.0 13.5	112704 04/18/93 14:45	7		6	MEDIUM DENSE, (5Y4/4) OLIVE, CLAYEY SILT, SLIGHT PLASTICITY, SLIGHTLY MOIST			ML	N/A	PID=3 ppm BT=75 cpm			
13.5 14.5	04/18/93 00:00	16 21		0	NO RECOVERY			N/A	N/A				
NOTES:										Driller: JOE RAAB, RODGER DAVIS Drilling Equipment: CME-45			
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable			

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1967					COORDINATES: NORTH 477293.90 EAST 1379393.85 DATE: 18-APR-93				
GROUND ELEVATION: 568.2					GWL: Depth	Date/Time			DATE STARTED: 18-APR-93
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time			DATE COMPLETE: 19-APR-93
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D R I V E	B L O W S O N	S A M P L E R E V E R Y	R E C O V E R I C H E S		S U S M C B S O L	T S F	REMARKS
14.5 15.0	112705 04/18/93 15:10	3		6	MEDIUM DENSE, (5Y5/3) OLIVE, CLAYEY SILT, LOW PLASTICITY, MOIST		ML	N/A	PID=3.2 ppm BT=50 cpm
15.0 15.5	112706 04/18/93 15:10	6		6	MEDIUM DENSE, (5Y5/3) OLIVE, CLAYEY SILT, TRACE ORGANICS, LOW PLASTICITY, MOIST		ML	N/A	PID=3.2 ppm BT=50 cpm
15.5 16.0	112707 04/18/93 15:10	9		3	SAA		ML	N/A	PID=3.2 ppm BT=50 cpm
16.0 16.5	112708 04/18/93 15:20	9		6	DENSE, (5Y5/3) OLIVE, CLAYEY SILT, TRACE ORGANICS, TRACE GRAVEL, LOW PLASTICITY, MOIST		ML	N/A	PID=3.5 ppm BT=100 cpm
16.5 17.0	112709 04/18/93 15:20	14		6	SAA		ML	N/A	PID=3.5 ppm BT=100 cpm
17.0 17.5	112710 04/18/93 15:20	17		4	DENSE, (5Y5/3) OLIVE, CLAYEY SILT, TRACE ORGANICS, LOW TO MEDIUM PLASTICITY, MOIST, ORGANIC ORDER		ML	N/A	PID=3.5 ppm BT=100 cpm
17.5 18.0	112711 04/18/93 08:45	4		6	SOFT, (5Y4/4) OLIVE, SILTY CLAYEY SAND, TRACE GRAVEL, MEDIUM PLASTIC, MOIST ORGANIC ORDER		CL	.5	PID=1.5 ppm BT=60 cpm
18.0 19.0	04/18/93 00:00	5	8	0	NO RECOVERY PUSHED ROCK		N/A	N/A	
19.0 19.5	112712 04/18/93 09:00	8		6	SOFT, (5Y4/4) OLIVE, SILTY CLAY WITH SAND, TRACE GRAVEL, MEDIUM PLASTICITY, MOIST, ORGANIC ODOR		CL	N/A	PID=.9 ppm BT=60 cpm
19.5 20.0	112713 04/18/93 09:00	4		6	SOFT, (5Y4/4) OLIVE, SILTY CLAY WITH GRAVEL, TRACE SAND, MEDIUM PLASTICITY, MOIST		CL	.25	PID=.9 ppm BT=60 cpm
20.0 20.5	04/18/93 00:00	7		0	NO RECOVERY		N/A	N/A	
20.5 21.0	112714 04/18/93 09:10	7		6	SOFT, (5Y4/4) OLIVE, SILTY CLAY WITH SAND AND GRAVEL, MEDIUM TO HIGH PLASTICITY, MOIST		CL	.5	PID=1.5 ppm BT=60 cpm
21.0 21.5	112715 04/18/93 09:10	13		6	SAA		CL	.5	PID=1.5 ppm BT=60 cpm
NOTES:									
Driller: JOE RAAB, RODGER DAVIS Drilling Equipment: CME-45 SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1967					COORDINATES: NORTH 477293.90 EAST 1379393.85 DATE: 18-APR-93					
GROUND ELEVATION: 568.2					GWL: Depth Date/Time			DATE STARTED: 18-APR-93		
ENGINEER/GEOLOGIST: J BOYER					Depth Date/Time			DATE COMPLETE: 19-APR-93		
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E E E	B L O W S L O N	T I M E M P R E C O V R Y	R E C O V R Y E S	I N C H E S	S Y U S M C B S O L	T S F	REMARKS	
21.5		04/18/93	15	0	NO RECOVERY			N/A	N/A	
22.0		00:00								
22.0	112716	04/18/93	9	6	SOFT, (5Y4/4) OLIVE, SILTY CLAY WITH GRAVEL, MEDIUM PLASTICITY, MOIST			CL	.5	PID=1 ppm BT=65 cpm
22.5	09:25									
22.5	112717	04/18/93	13	6	MEDIUM STIFF, (5Y4/4) OLIVE, SILTY CLAY WITH GRAVEL, LOW PLASTICITY, MOIST, ORGANIC ODOR			CL	.75	PID=1 ppm BT=65 cpm
23.0	09:25									
23.0	112718	04/18/93	17	4	SAA			CL	.75	PID=1 ppm BT=65 cpm
23.5	09:25									
23.5	112719	04/18/93	5	6	MEDIUM STIFF, (5Y4/4) OLIVE, SILTY CLAY, TRACE GRAVEL AND ORGANICS, MOIST			CL	1	PID=.6 ppm BT=75 cpm
24.0	09:45									
24.0	112720	04/18/93	8	6	SAA			CL	1	PID=.6 ppm BT=75 cpm
24.5	09:45									
24.5	112721	04/18/93	10	6	SAA			CL	1	PID=.6 ppm BT=75 cpm
25.0	09:45									
25.0	112722	04/18/93	9	6	STIFF, (5Y4/4) OLIVE, SILTY CLAY, TRACE GRAVEL AND ORGANICS, MOIST			CL	1.5	PID=1 ppm BT=60 cpm
25.5	10:55									
25.5	112723	04/18/93	4	6	SAA			CL	2	PID=1 ppm BT=60 cpm
26.0	10:55									
26.0	112724	04/18/93	6	5	SAA			CL	N/A	PID=1 ppm BT=60 cpm
26.5	10:55									
26.5	112725	04/18/93	11	6	STIFF, (5Y5/4) OLIVE, SILTY CLAY, LOW PLASTICITY, TRACE GRAVEL, MOIST			CL	2	PID=0 ppm BT=60 cpm
27.0	11:10									
27.0	112726	04/18/93	11	6	SAA			CL	1.5	PID=0 ppm BT=60 cpm
27.5	11:10									
27.5	112727	04/18/93	16	6	SAA			CL	1	PID=0 ppm BT=60 cpm
28.0	11:10									
NOTES:										
Driller: JOE RAAB, RODGER DAVIS Drilling Equipment: CME-45										
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1967					COORDINATES: NORTH 477293.90 EAST 1379393.85			DATE: 18-APR-93		
GROUND ELEVATION: 568.2					GWL: Depth Date/Time			DATE STARTED: 18-APR-93		
ENGINEER/GEOLOGIST: J BOYER					Depth Date/Time			DATE COMPLETE: 19-APR-93		
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A D M P L E	D T M E E	B L O W S O N	S A M P L E R E Y	R E C O V E R Y	I N C H E S	S U Y S M C B S O L	T S F	REMARKS	
28.0	112728 04/18/93 13:15	2		6	STIFF, (2.5Y5/4) LIGHT OLIVE BROWN, SILTY CLAY WITH SAND, TRACE GRAVEL, MOIST			CL	1	PID=1 ppm BT=60 cpm
28.5	112729 04/18/93 13:15	6		6	SAA			CL	1	PID=1 ppm BT=60 cpm
29.0	112730 04/18/93 13:15	9		4	SAA			CL	2	PID=1 ppm BT=60 cpm
29.5	112731 04/18/93 13:30	8		6	DENSE, (10YR4/6) DARK YELLOWISH BROWN, SILT, TRACE COARSE SAND, DRY			ML	N/A	PID=1.2 ppm BT=60 cpm
30.0	112731 04/18/93 13:30	10		6	DENSE, (10YR 4/6) DARK YELLOWISH BROWN, SILT, TRACE COARSE SAND, DRY			ML	N/A	PID=1.2 ppm BT=60 cpm
30.5	112731 04/18/93 13:30	15		6	SAA			ML	N/A	PID=1.2 ppm BT=60 cpm
31.0	112732 04/18/93 13:30	21		6	SAA			ML	N/A	PID=1.2 ppm BT=60 cpm
NOTES:										Driller: JOE RAAB, RODGER DAVIS Drilling Equipment: CME-45
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 1968					COORDINATES: NORTH 477364.98 EAST 1379590.55 DATE: 19-APR-93						
GROUND ELEVATION: 569					GWL: Depth Date/Time DATE STARTED: 19-APR-93						
ENGINEER/GEOLOGIST: J REAGAN					Depth Date/Time DATE COMPLETE: 20-APR-93						
DRILLING METHOD: HOLLOW STEM AUGER											
D E P T H	S A M P L E	D A T E E	B L O W S E	S A M P L E	R E C O V E R Y	I N C H E S		S Y U S M C B S O L	T S F	REMARKS	
1.0	04/19/93 00:00	50	0	NO RECOVERY					N/A	N/A	
1.0	112833 04/19/93 08:20	N/A	N/A	SHELBY TUBE SAMPLE					N/A	N/A	
3.0	112834 04/19/93 08:35	13	6	(2.5Y, 2.5/1) BLACK, COAL PIECES					N/A	N/A	PID=0 ppm BT=60 cpm
3.5	112834 04/19/93 08:35	17	6	STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, CLAYEY SILTY FINE SANDY, LOW PLASTICITY, DRY					ML	1.5	PID=0 ppm BT=60 cpm
4.0	112834 04/19/93 08:35	18	6	STIFF, (2.5Y, 4/1) DARK GRAY, SILTY CLAYEY FINE SAND, LOW PLASTICITY, DRY					ML	1.5	PID=0 ppm BT=60 cpm
4.5	112835 04/19/93 08:50	6	6	STIFF (2.5Y, 4/4) OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, MOIST					CL	1.5	PID=0 ppm BT=60 cpm
5.0	112835 04/19/93 08:50	12	6	VERY STIFF, (2.5Y, 4/2) DARK GRAYISH BROWN, SILTY CLAY, SLIGHTLY PLASTIC, MOIST					CL	2.5	PID=0 ppm BT=60 cpm
5.5	112835 04/19/93 08:50	12	6	SAA					CL	2.5	PID=0 ppm BT=60 cpm
6.0	112835 04/19/93 08:50	10	6	SAA					CL	2.25	PID=0 ppm BT=60 cpm
6.5	112836 04/19/93 09:05	10	6	SAA					CL	2	PID=0 ppm BT=60 cpm
7.0	112837 04/19/93 09:05	7	6	SAA					CL	2	PID=0 ppm BT=60 cpm
7.5	112838 04/19/93 09:05	8	6	VERY STIFF, (2.5Y, 4/2), DARK GRAYISH BROWN, SILTY CLAY, SLIGHTLY PLASTIC, MOIST					CL	2.5	PID=0 ppm BT=60 cpm
8.0	112839 04/19/93 09:15	4	6	STIFF, (2.5Y, 4/1) DARK GRAY, SILTY CLAY, LOW PLASTICITY, MOIST					CL	1.5	PID=0 ppm BT=60 cpm
NOTES:										Driller: MARTY WATRAL, DOC DETLEY Drilling Equipment: ACKER SOIL SENTRY	
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1968					COORDINATES: NORTH 477364.98 EAST 1379590.55			DATE: 19-APR-93		
GROUND ELEVATION: 569					GWL: Depth	Date/Time		DATE STARTED: 19-APR-93		
ENGINEER/GEOLOGIST: J REAGAN					Depth	Date/Time		DATE COMPLETE: 20-APR-93		
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E E N O N	B L O O M S P L E	R E C O V E R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS	
8.5		04/19/93 09:15	4	0	NO RECOVERY			N/A	N/A	
9.0		04/19/93 09:15	5	0	NO RECOVERY			N/A	N/A	
9.5	112840 04/19/93 09:20		3	6	STIFF, (2.5Y 4/1) DARK GRAY, SILTY CLAY, LOW PLASTICITY, MOIST			CL	2	PID=0 ppm BI=80 cpm
10.0	112841 04/19/93 09:20		3	6	STIFF, (2.5Y, 4/1) DARK GRAY, (2.5Y, 3/1) VERY DARK GRAY, MOTTLES, SILTY CLAY, SLIGHTLY PLASTIC, MOIST			CL	1.25	PID=0 ppm BI=80 cpm
10.5	04/19/93 09:25		4	0	NO RECOVERY			N/A	N/A	
11.0	112842 04/19/93 09:30		15	6	STIFF, (2.5Y, 4/1) DARK GRAY, (2.5Y, 3/1) VERY DARK GRAY, MOTTLES, SILTY CLAY, SLIGHTLY PLASTIC, WET			CL	1.0	PID=0 ppm BI=40 cpm
11.5	112843 04/19/93 09:30		17	6	VERY STIFF, (2.5Y, 4/2) DARK GRAYISH BROWN, (2.5Y, 3/1) VERY DARK GRAYISH BROWN, MOTTLES, SILTY CLAY, SLIGHTLY PLASTIC, MOIST			CL	3.0	PID=0 ppm BI=40 cpm
12.0	112844 04/19/93 09:30		23	6	VERY STIFF, (2.5Y, 4/2) DARK GRAYISH BROWN, SILTY CLAY, SLIGHTLY PLASTIC, MOIST			CL	2.5	PID=0 ppm BI=60 cpm
12.5	112845 04/19/93 09:45		7	6	SAA			CL	2.5	PID=0 ppm BI=60 cpm
13.0	112846 04/19/93 09:45		10	6	SAA			CL	2.75	PID=0 ppm BI=60 cpm
13.5	04/19/93 00:00		12	0	NO RECOVERY			N/A	N/A	PID=0 ppm BI=60 cpm
14.0	112847 04/19/93 10:05		5	6	VERY STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, MOIST			CL	2.5	PID=0 ppm BI=60 cpm
14.5	112848 04/19/93 10:05		12	6	SAA			CL	2.5	PID=0 ppm BI=60 cpm
NOTES:										Driller: MARTY WATRAL, DOC DETLEY Drilling Equipment: ACKER SOIL SENTRY
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 1968				COORDINATES: NORTH 477364.98 EAST 1379590.55			DATE: 19-APR-93			
GROUND ELEVATION: 569				GWL: Depth Date/Time			DATE STARTED: 19-APR-93			
ENGINEER/GEOLOGIST: J REAGAN				Depth Date/Time			DATE COMPLETE: 20-APR-93			
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E E N	B L O W S O N	T I M E E R	R E S C O P L	I N C H E E Y	S Y U S M C B S O L	T S F	REMARKS	
15.0		04/19/93 00:00	20	0	NO RECOVERY			N/A	N/A	PID=0 ppm BT=60 cpm
15.5		112849 04/19/93 10:30	10	6	STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, DRY, LOW PLASTICITY			CL	2	PID=0 ppm BT=60 cpm
16.0		112849 04/19/93 10:30	24	6	SAA			CL	2	PID=0 ppm BT=60 cpm
16.5		112850 04/19/93 10:30	50	4	SAA			CL	3	PID=0 ppm BT=50 cpm
17.0		112851 04/19/93 13:30	10	6	LOOSE, (2.5Y, 4/3) OLIVE BROWN, POORLY GRADED SAND, MOIST			SP	N/A	PID=0 ppm BT=50 cpm
17.5		112852 04/19/93 13:30	10	4	SAA			N/A	N/A	PID=0 ppm BT=50 cpm
18.0		04/19/93 00:00	11	0	NO RECOVERY			N/A	N/A	
NOTES:										Driller: MARTY WATRAL, DOC DETLEY Drilling Equipment: ACKER SOIL SENTRY SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION								
BORING NUMBER: 1969					COORDINATES: NORTH 477633.01 EAST 1379700.05			DATE: 15-APR-93					
GROUND ELEVATION: 575.5					GWL: Depth	Date/Time		DATE STARTED: 15-APR-93					
ENGINEER/GEOLOGIST: MUSA M KESEBIR					Depth	Date/Time		DATE COMPLETE: 15-APR-93					
DRILLING METHOD: HOLLOW STEM AUGER													
D E P T H	S A M P L E	D T M E E	B L O W S P L E N O N	S A M C O V E R Y	R E C O V E R Y	I N C H E S	U S C B S O L	T S F	REMARKS				
.5	112554 04/15/93 08:50	1		6	STIFF, (10YR 5/3) BROWN, SILTY CLAY WITH PLANT ROOTS, HIGH PLASTICITY, MOIST			OL	1	PID=0 ppm BT=80 cpm			
.5	112555 04/15/93 08:50	1.0	4	6	SAA			OL	1.5	PID=0 ppm BT=80 cpm			
1.0	112556 04/15/93 08:50	1.5	3	6	SAA			OL	1.5	PID=0 ppm BT=1.5 cpm			
1.5	04/15/93 00:00	2.0	3	0	NO RECOVERY			N/A	N/A				
2.0	112557 04/15/93 09:10	2.5	3	6	STIFF, (10YR 5/2) GRAYISH BROWN, SILTY CLAY WITH DECOMPOSED ROOTS, MEDIUM TO HIGH PLASTICITY, MOIST			OH	2	PID=0 ppm BT=40 cpm			
2.5	112557 04/15/93 09:10	3.0	5	6	SAA			OH	2	PID=0 ppm BT=40 cpm			
3.0	112557 04/15/93 09:10	3.5	10	6	SAA			OH	2	PID=0 ppm BT=40 cpm			
3.5	112557 04/15/93 09:10	4.0	13	6	SAA			OH	2	PID=0 ppm BT=40 cpm			
4.0	112558 04/15/93 09:35	4.5	15	6	STIFF, (10YR 5/2) GRAYISH BROWN, SILTY CLAY WITH LAMINATION, MEDIUM TO HIGH PLASTICITY, MOIST			OH	1.5	PID=2 ppm BT=60 cpm			
4.5	112559 04/15/93 09:35	5.0	15	6	SAA			OH	2	PID=2 ppm BT=60 cpm			
5.0	112559 04/15/93 09:35	5.5	15	6	SAA			OH	2	PID=2 ppm BT=60 cpm			
5.5	112559 04/15/93 09:35	6.0	15	6	SAA			OH	2	PID=2 ppm BT=60 cpm			
6.0	112560 04/15/93 10:00	6.5	5	6	VERY STIFF, (10YR 5/2) GRAYISH BROWN, LAMINATED CLAY, MEDIUM TO HIGH PLASTICITY, MOIST			CL	3	PID=1.5 ppm BT=60 cpm			
NOTES: 2 X 50 LBS VOLCLAY & 1/2 X 94 LBS CEMENT WERE USED TO GROUT.										Boring Contractor: PENNSYLVANIA DRILLING Driller: MARTY WATRAL Drilling Equipment: ACKER			
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable													

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1969					COORDINATES: NORTH 477633.01 EAST 1379700.05				
GROUND ELEVATION: 575.5					GWL: Depth	Date/Time		DATE STARTED: 15-APR-93	
ENGINEER/GEOLOGIST: MUSA M KESEBIR					Depth	Date/Time		DATE COMPLETE: 15-APR-93	
DRILLING METHOD: HOLLOW STEM AUGER									
DEPTH	SAMPLE	TIME	BLOW COUNT	RECOVERY	REMARKS	SYMBOL	TSF	REMARKS	
6.5	112561 04/15/93 10:00	14	6	SAA		CL	3	PID=1.5 ppm BT=60 cpm	
7.0	112562 04/15/93 10:10	9	6	SAA		CL	3	PID=2 ppm BT=60 cpm	
7.5	112562 04/15/93 10:10	20	6	SAA		CL	3	PID=2 ppm BT=60 cpm	
8.0	112562 04/15/93 10:10	25	6	SAA		CL	3	PID=2 ppm BT=60 cpm	
8.5	112562 04/15/93 10:10	30	6	SAA		CL	3	PID=2 ppm BT=60 cpm	
9.0	112563 04/15/93 10:20	5	6	VERY STIFF, (10YR 5/2) GRAYISH BROWN, CLAY WITH 2" (10YR, 5/1) GRAY CLAY, HIGH PLASTICITY, MOIST		CL	3	PID=1 ppm BT=100 cpm	
9.5	112563 04/15/93 10:20	9	6	SAA		CL	3	PID=1 ppm BT=100 cpm	
10.0	112563 04/15/93 10:20	15	6	MEDIUM STIFF, (10YR 5/3) BROWN, CLAYEY SILT, LOW PLASTICITY, MOIST TO WET		OL	1	PID=1 ppm BT=100 cpm	
10.5	112564 04/15/93 10:45	5	6	MEDIUM DENSE, (10YR 5/3) BROWN, FINE SAND, WET, LOOSE		SM	N/A	PID=1 ppm BT=60 cpm	
11.0	112564 04/15/93 10:45	7	6	STIFF, (10YR 5/3) BROWN, CLAYEY SILT, LOW PLASTICITY, MOIST		OL	1.5	PID=1 ppm BT=60 cpm	
11.5	112564 04/15/93 10:45	14	6	MEDIUM DENSE, (10YR 5/1) GRAY, FINE SAND, MOIST TO WET, LOOSE		SM	N/A	PID=1 ppm BT=60 cpm	
12.0	112565 04/15/93 11:05	N/A	N/A	SHELBY NOT DESCRIBED		N/A	N/A	PID=1 ppm BT=60 cpm	
13.5	112566 04/15/93 11:15	6	5	VERY STIFF, (10YR 5/1) GRAY FINE SANDY SILT, MEDIUM DENSE, MOIST		MH	3	PID=1 ppm BT=60 cpm	
NOTES: 2 X 50 LBS VOLCLAY & 1/2 X 94 LBS CEMENT WERE USED TO GROUT.					Boring Contractor: PENNSYLVANIA DRILLING Driller: MARTY WATRAL Drilling Equipment: ACKER				
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION							
BORING NUMBER: 1970					COORDINATES: NORTH 477613.30 EAST 1379444.79			DATE: 18-APR-93				
GROUND ELEVATION: 571					GWL: Depth	Date/Time		DATE STARTED: 18-APR-93				
ENGINEER/GEOLOGIST: MUSA KESIBIR					Depth	Date/Time		DATE COMPLETE: 18-APR-93				
DRILLING METHOD: HOLLOW STEM AUGER (HSA)												
D E P T H	S A M P L E E	D A T E E E	B L O W S O N	T I M E E R Y	R E C O V E R Y	I N C H E S	S Y S M B S O L	T S F	REMARKS			
.5	112688 04/18/93 09:20	N/A	6		SHELBY		N/A	N/A	BT=40 cpm			
.5 1.0	112688 04/18/93 09:20	N/A	6		SHELBY		N/A	N/A	BT=40 cpm			
1.0 1.5	112688 04/18/93 09:20	N/A	-3		SHELBY		N/A	N/A	BT=40 cpm			
1.5 2.0	112688 04/18/93 09:20	N/A	0		SHELBY		N/A	N/A	BT=40 cpm			
2.0 2.5	112689 04/18/93 09:30	N/A	6		SHELBY		N/A	N/A	BT=40 cpm			
2.5 3.0	112689 04/18/93 09:30	N/A	6		SHELBY		N/A	N/A	BT=40 cpm			
3.0 3.5	112689 04/18/93 09:30	N/A	6		SHELBY		N/A	N/A	BT=40 cpm			
3.5 4.0	112689 04/18/93 09:30	N/A	6		SHELBY		N/A	N/A	BT=40 cpm			
4.0 4.5	112690 04/18/93 10:00	4	6	STIFF, (10YR 4/3) BROWN, SILTY CLAY, MEDIUM TO HIGH PLASTICITY, MOIST			CL	2	PID=0 ppm BT=40 cpm			
4.5 5.0	112690 04/18/93 10:00	10	6	VERY STIFF, SAA			CL	2.5	BT=40 cpm			
5.0 5.5	112690 04/18/93 10:00	12	6	VERY STIFF, (10YR 4/3) BROWN, SILTY CLAY WITH BROKEN COBBLES, MEDIUM TO HIGH PLASTICITY, MOIST			CL	2.5	PID=0 ppm BT=40 cpm			
5.5 6.0	112691 04/18/93 10:20	4	6	STIFF, (10YR 4/3) BROWN, SILTY CLAY MEDIUM TO HIGH PLASTICITY, MOIST			CL	2	PID=0 ppm BT=40 cpm			
6.0 6.5	112691 04/18/93 10:20	4	6	SAA			CL	2	PID=0 ppm BT=40 cpm			
NOTES: 1 DRUM FOR DRILL CUTTINGS 1 DRUM FOR ALCO NOX WATER WERE GENERATED												
Boring Contractor: PENNSYLVANIA DRILLING Driller: MARTY WATRAL Drilling Equipment: ACKER #393												
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable												

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1970					COORDINATES: NORTH 477613.30 EAST 1379444.79			DATE: 18-APR-93	
GROUND ELEVATION: 571					GWL: Depth	Date/Time		DATE STARTED: 18-APR-93	
ENGINEER/GEOLOGIST: MUSA KESIBIR					Depth	Date/Time		DATE COMPLETE: 18-APR-93	
DRILLING METHOD: HOLLOW STEM AUGER (HSA)									
D E P T H	S A D T M P L E	B A I T M S L E	R E C O M P L E	I N C O H E R Y		S Y S M C B S O L	T S F	REMARKS	
6.5 7.0	112691 04/18/93 10:20	7	6	STIFF, (10YR 4/3) BROWN, SILTY CLAY WITH BROKEN COBBLES, MEDIUM TO HIGH PLASTICITY, MOIST			CL	2	PID=0 ppm BT=40 cpm
7.0 7.5	112892 04/18/93 10:50	N/A	6	SHELBY			N/A	N/A	BT=40 cpm
7.5 8.0	112892 04/18/93 10:50	N/A	6	SHELBY			N/A	N/A	BT=40 cpm
8.0 8.5	112892 04/18/93 10:50	N/A	6	SHELBY			N/A	N/A	BT=40 cpm
8.5 9.0	112892 04/18/93 10:50	N/A	0	SHELBY			N/A	N/A	BT=40 cpm
9.0 9.5	112893 04/18/93 13:10	3	6	MEDIUM STIFF, (10YR 4/3) BROWN, SILTY CLAY HIGH PLASTICITY, MOIST			CL	1	PID=0 ppm BT=40 cpm
9.5 10.0	112893 04/18/93 13:10	2	6	MEDIUM STIFF, (5GY 5/1) GREENISH GRAY, SILTY CLAY, HIGH PLASTICITY, MOIST			CL	1	PID=0 ppm BT=40 cpm
10.0 10.5	112893 04/18/93 13:10	3	6	SAA			CL	1	PID=0 ppm BT=40 cpm
10.5 11.0	112894 04/18/93 13:10	4	4	SAA			CL	1	PID=0 ppm BT=40 cpm
NOTES: 1 DRUM FOR DRILL CUTTINGS 1 DRUM FOR ALCO NOX WATER WERE GENERATED									
Boring Contractor: PENNSYLVANIA DRILLING Driller: MARTY WATRAL Drilling Equipment: ACKER #393									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION										
BORING NUMBER: 1971					COORDINATES: NORTH 477709.01 EAST 1379566.04 DATE: 15-APR-93										
GROUND ELEVATION: 575.4					GWL: Depth	Date/Time		DATE STARTED: 15-APR-93							
ENGINEER/GEOLOGIST: J BOYER, J REGA			Depth		Date/Time		DATE COMPLETE: 15-APR-93								
DRILLING METHOD: 8 1/2" HOLLOW STEM AUGER															
D E P T H	S A M P L E	D A T E E E	B L O W N O N	S A M P L E	R E C O V E R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS					
.5	112530 04/15/93 08:30	3		6	MEDIUM STIFF, (2.5Y 5/3) LIGHT OLIVE BROWN, SILTY FINE SAND, LOW PLASTICITY, MOIST				ML	1.0					
1.0	112531 04/15/93 08:30	3		6	VERY STIFF, (2.5Y 4/3) OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, MOIST				CL	3.5	BT=50 cpm				
1.5	112532 04/15/93 08:30	5		6	STIFF, (2.5Y 4/3) OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, MOIST				CL	1.25	PID=1 ppm				
3.0	112533 04/15/93 09:00	7	7	0	NO RECOVERY				N/A	N/A					
3.5	112534 04/15/93 09:00	9		6	SOFT, (2.5Y 4/3) OLIVE BROWN, SILTY FINE SAND, LOW PLASTICITY, MOIST				ML	0.25	PID=1 ppm BT=40 cpm				
4.0	112535 04/15/93 09:00	15		4	MEDIUM STIFF, (2.5Y 5/3) LIGHT OLIVE BROWN, SILTY FINE SAND, MOIST				ML	0.50	PID=1 ppm BT=40 cpm				
5.0	112536 04/15/93 09:05	3		6	STIFF, (10YR 4/4) DARK YELLOWISH BROWN, SILTY CLAY, SLIGHTLY PLASTIC, MOIST				CL	1	PID=1 ppm BT=50 cpm				
5.5	112536 04/15/93 09:05	7		6	STIFF, (10YR 4/4) DARK YELLOWISH BROWN, SILTY FINE SAND, LOW PLASTICITY, MOIST				ML	1.75	PID=1 ppm BT=50 cpm				
6.0	112536 04/15/93 09:05	15		6	STIFF, (10YR 4/6) DARK YELLOWISH BROWN, SILTY CLAY, LOW PLASTICITY, MOIST				CL	1	PID=1 ppm BT=50 cpm				
6.5	112536 04/15/93 09:05	19		6	VERY STIFF, (2.5Y 5/4) LIGHT OLIVE BROWN, SILTY FINE SAND, LOW PLASTICITY, MOIST				ML	2.75	PID=2.75 ppm BT=50 cpm				
7.0	112537 04/15/93 09:15	25		6	VERY STIFF, (2.5Y 5/4) LIGHT OLIVE BROWN, SILTY CLAY, SLIGHTLY PLASTIC, MOIST				CL	3.5	PID=1 ppm BT=50 cpm				
7.5	112538 04/15/93 09:15	30		6	SAA				CL	3.75	PID=1 ppm BT=50 cpm				
NOTES: BOREHOLE WAS ABANDONED USING VOLCLAY FROM THE BOTTOM TO GROUND SURFACE										Boring Contractor: PENNSYLVANIA DRILLING Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: CME-45					
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable,															

CRU2 RI

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1971					COORDINATES: NORTH 477709.01 EAST 1379566.04			DATE: 15-APR-93		
GROUND ELEVATION: 575.4					GWL: Depth	Date/Time		DATE STARTED: 15-APR-93		
ENGINEER/GEOLOGIST: J BOYER, J REGA					Depth	Date/Time		DATE COMPLETE: 15-APR-93		
DRILLING METHOD: 8 1/2" HOLLOW STEM AUGER										
DEPTH	SAMPLE	DATE	BLOW COUNT	RECOVERY				SYMBOL	TSF	REMARKS
	E	MM/EE	TT/SS	RR/CC	EE/NN	RR/CC	EE/NN	S U M C B S O L	T S F	
7.5	112539 04/15/93 09:15	42	3	SAA				CL	3.5	PID=1 ppm BT=50 cpm
8.0	112540 04/15/93 09:35	6	6	SAA				CL	3.5	PID=1 ppm BT=50 cpm
8.5	112541 04/15/93 09:35	15	6	SAA				CL	3.5	PID=1 ppm BT=50 cpm
9.0	112592 04/15/93 09:35	25	3	SAA				CL	3.25	PID=1 ppm BT=50 cpm
9.5	112593 04/15/93 10:00	5	N/A	VERY STIFF, (10YR 5/4) YELLOWISH BROWN, SILTY CLAY, SLIGHTLY PLASTIC, MOIST				CL	3.5	PID=1 ppm BT=50 cpm
10.0	112593 04/15/93 10:00	24	N/A	VERY STIFF, (10YR 5/4) YELLOWISH BROWN, (2.5Y 7/1) LIGHT GRAY MOTTLES, SILTY CLAY SLIGHTLY PLASTIC, MOIST				CL	4	PID=1 ppm BT=50 cpm
10.5	112593 04/15/93 10:00	37	N/A	VERY STIFF, (10YR 5/4) YELLOWISH BROWN, (7.5YR 4/6) STRONG BROWN MOTTLES, (2.5Y 7.1) LIGHT GRAY MOTTLES, SILTY CLAY, SLIGHTLY PLASTIC, MOIST				CL	4	PID=1 ppm BT=50 cpm
11.0	112594 04/15/93 10:00	33	N/A	VERY STIFF, (2.5Y 5/6) LIGHT OLIVE BROWN, (2.5Y 7/4) LIGHT GRAY MOTTLES, SILTY CLAY, SLIGHTLY PLASTIC, MOIST				CL	3.0	PID=1 ppm BT=50 cpm
NOTES: BOREHOLE WAS ABANDONED USING VOLCLAY FROM THE BOTTOM TO GROUND SURFACE										Boring Contractor: PENNSYLVANIA DRILLING Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: CME-45
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION							
BORING NUMBER: 1972				COORDINATES: NORTH 477958.00 EAST 1379491.36 DATE:08-APR-93							
GROUND ELEVATION: 578.2				GWL: Depth Date/Time				DATE STARTED: 08-APR-93			
ENGINEER/GEOLOGIST: J BOYER				Depth Date/Time				DATE COMPLETE: 08-APR-93			
DRILLING METHOD: AUGER											
D E P T H	S A M P L E E	D A I T E E	T M S L E E	B L O W O N	S A M P L E	R E C O V E R Y	I N C H E S	U S Y M B C S O L	T S F	REMARKS	
.5	110583 04/08/93 10:15	110583 04/08/93 10:15	110583 04/08/93 10:15	110583 04/08/93 10:15	5 15 13 10 10 22 13 17 28 7 12 14 8	6 6 0 6 6 4 6 6 4 6 6 4 0	MEDIUM DENSE, (2.5Y 5/3) LIGHT OLIVE BROWN, CLAYEY SILT, WITH SAND AND GRAVEL SLIGHT PLASTICITY, SLIGHTLY MOIST SAA NO RECOVERY VERY STIFF, (2.5Y 5/6) LIGHT OLIVE BROWN, SILTY CLAY WITH GRAVEL, LOW PLASTICITY, SLIGHTLY MOIST SAA VERY STIFF, (2.5Y 5/6) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, SLIGHTLY MOIST HARD, (10YR 5/6) YELLOWISH BROWN, SILTY CLAY, LOW PLASTICITY, SLIGHTLY MOIST, IRON STAINED SAA SAA LOOSE, (2.5Y 5/4) LIGHT OLIVE BROWN, CLAYEY SILT, TRACE GRAVEL, DRY, LOW PLASTICITY VERY STIFF, (10YR 5/6) YELLOWISH BROWN, SILTY CLAY, LOW PLASTICITY, DRY, MOIST VERY STIFF, (10YR, 5/8) YELLOWISH BROWN, SILTY CLAY, LOW-MED PLASTICITY, MOIST NO RECOVERY	ML ML N/A CL CL CL CL CL CL ML CL CL N/A	N/A N/A N/A 3.0 3.5 3.5 4.5 4.0 4.0 N/A	PID=3 ppm BT=500 cpm PID=3 ppm BT=500 cpm PID=3 ppm BT=500 cpm PID=3 ppm BT=100 cpm PID=3 ppm BT=100 cpm PID=3 ppm BT=100 cpm PID=3 ppm BT=80-100 cpm PID=3 ppm BT=80-100 cpm PID=3 ppm BT=80-100 cpm PID=3 ppm BT=100-120 cpm PID=3 ppm BT=100-120 cpm PID=3 ppm BT=100-120 cpm N/A N/A	
NOTES:											
Boring Contractor: PENNSYLVANIA DRILLING Driller: JOE RAAB, RODGER DAVIS Drilling Equipment: CME-45 SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable											

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1972				COORDINATES: NORTH 477958.00 EAST 1379491.36			DATE: 08-APR-93		
GROUND ELEVATION: 578.2				GWL: Depth	Date/Time		DATE STARTED: 08-APR-93		
ENGINEER/GEOLOGIST: J BOYER				Depth	Date/Time		DATE COMPLETE: 08-APR-93		
DRILLING METHOD: AUGER									
DEPTH	SAMPLE	SAE TIME	BLOWS	RECOVERY	INCHES	SYMBOL	TSF	REMARKS	
6.5 7.0	04/08/93 13:15	13	0	NO RECOVERY			N/A	N/A	
7.0 7.5	04/08/93 13:15	22	0	NO RECOVERY			N/A	N/A	
7.5 8.0	112494 04/08/93 13:45	5	6	LOOSE, (2.5Y 5/6) LIGHT OLIVE BROWN, CLAYEY SAND WITH SILT, FINE SAND, MOIST			SC	N/A	PID=3 ppm BT=80 cpm
8.0 8.5	112494 04/08/93 13:45	8	6	LOOSE, (2.5Y 6/6) OLIVE YELLOW, CLAYEY SILT, WITH FINE SAND, SLIGHTLY PLASTICITY, MOIST			ML	N/A	PID=3 ppm BT=80 cpm
8.5 9.0	112494 04/08/93 13:45	11	5	SAA			ML	N/A	PID=3 ppm BT=80 cpm
9.0 9.5	112495 04/08/93 14:00	7	6	LOOSE, (2.5Y 5/6) LIGHT OLIVE BROWN, CLAYEY SILT WITH FINE SAND, SLIGHT PLASTICITY, MOIST			ML	N/A	PID=3 ppm BT=80 cpm
9.5 10.0	112496 04/08/93 14:00	12	6	VERY STIFF, (2.5Y 5/6) LIGHT OLIVE BROWN, SILTY CLAY, MEDIUM PLASTICITY, MOIST			CL	3.0	PID=3 ppm BT=80 cpm
10.0 10.5	112497 04/08/93 14:00	20	6	VERY STIFF, (2.5Y 6/4) LIGHT YELLOWISH BROWN, SILTY CLAY, LOW PLASTICITY, MOIST			CL	3.5	PID=3 ppm BT=80 cpm
NOTES: Boring Contractor: PENNSYLVANIA DRILLING Driller: JOE RAAB, RODGER DAVIS Drilling Equipment: CME-45 SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1975			COORDINATES: NORTH 477869.01 EAST 1379784.06			DATE: 13-APR-93				
GROUND ELEVATION: 578.8			GWL: Depth Date/Time			DATE STARTED: 13-APR-93				
ENGINEER/GEOLOGIST: MUSA M KESEBIR			Depth Date/Time			DATE COMPLETE: 13-APR-93				
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E E E	B L O W S L E N O N	S T M E E S P L E R Y	R E C O V E R Y	I N C H E S	S U Y S M C B S O L	T S F	REMARKS	
.5	112542 04/13/93 10:30	5	6			VERY STIFF, (10YR 4/2) DARK GRAYISH BROWN, SILTY CLAY, SOME PEBBLES, MOIST, MEDIUM PLASTICITY	CL	2.5	PID=0 ppm BT=80 cpm	
.5 1.0	112543 04/13/93 10:30	6	6			SAA	CL	2.5	PID=0 ppm BT=80 cpm	
1.0 1.5	04/13/93 10:30	6	0			NO RECOVERY	N/A	N/A		
1.5 2.0	04/13/93 10:30	5	0			NO RECOVERY	N/A	N/A		
2.0 2.5	112544 04/13/93 10:45	3	6			MEDIUM STIFF (10YR 5/3) BROWN, SILTY CLAY, MOIST TO WET, MEDIUM PLASTICITY	CL	1	PID=0 ppm BT=60 cpm	
2.5 3.0	112544 04/13/93 10:45	3	6			SAA	CL	1	PID=0 ppm BT=60 cpm	
3.0 3.5	112544 04/13/93 10:45	3	6			SAA	CL	1	PID=0 ppm BT=60 cpm	
3.5 4.0	04/13/93 10:45	4	0			NO RECOVERY	N/A	N/A		
4.0 4.5	112545 04/13/93 11:00	8	6			VERY STIFF, (10YR 5/3) BROWN, CLAY, HIGH PLASTICITY, MOIST	CH	3	PID=0 ppm BT=60 cpm	
4.5 5.0	112545 04/13/93 11:00	5	6			SAA	CH	3	PID=0 ppm BT=60 cpm	
5.0 6.5	112546 04/13/93 13:40	N/A	N/A			PUSHED SHELBY TUBE, SAMPLE NOT DESCRIBED	N/A	N/A		
6.5 7.0	112546 04/13/93 13:40	N/A	N/A				N/A	N/A	PID=0 ppm BT=60 cpm	
7.0 7.5	112547 04/13/93 14:10	10	6			STIFF, (10YR 5/3) BROWN, SILTY CLAY, MEDIUM PLASTICITY, MOIST	CL	2	PID=0 ppm BT=60 cpm	

NOTES:

SOIL BORING WAS GROUTED UP USING VOLCLAY-CEMET MIX. A PIEZOMETER WAS NOT INSTALLED.

Boring Contractor: PENNSYLVANIA DRILLING
Driller: MARTY WATRAL
Drilling Equipment: ACKER #393SAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 1975				COORDINATES: NORTH 477869.01 EAST 1379784.06			DATE: 13-APR-93			
GROUND ELEVATION: 578.8				GWL: Depth Date/Time			DATE STARTED: 13-APR-93			
ENGINEER/GEOLOGIST: MUSA M KESEBIR				Depth Date/Time			DATE COMPLETE: 13-APR-93			
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E E E	T I M E S P L E O N	B L O W S P L E Y	R E C O V E R Y	I N C H E S	S U Y S M C B S O L	T S F	REMARKS	
7.5 8.0	112548 04/13/93 14:10	9	6	STIFF, (10YR 5/3) BROWN, CLAYEY SILT, LOW PLASTICITY, MOIST				ML	1.5	PID=0 ppm BT=60 cpm
8.0 8.5	112549 04/13/93 14:10	11	6	SAA				ML	1.5	PID=0 ppm BT=60 cpm
8.5 9.0	112550 04/13/93 14:25	10	6	VERY STIFF, (10YR 5/3) BROWN, LAMINATED CLAY, HIGH PLASTICITY, MOIST				CH	3	PID=0 ppm BT=60 cpm
9.0 9.5	112550 04/13/93 14:25	11	6	SAA				CH	3	PID=0 ppm BT=60 cpm
9.5 10.0	112550 04/13/93 14:25	13	6	SAA				CH	3	PID=0 ppm BT=60 cpm
10.0 10.5	112551 04/13/93 14:25	15	6	SAA				CH	3	PID=0 ppm BT=60 cpm
NOTES: SOIL BORING WAS GROUTED UP USING VOLCLAY-CEMET MIX. A PIEZOMETER WAS NOT INSTALLED.										Boring Contractor: PENNSYLVANIA DRILLING Driller: MARTY WATRAL Drilling Equipment: ACKER #393
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 1977				COORDINATES: NORTH 477826.80 EAST 1379322.50			DATE: 06-APR-93			
GROUND ELEVATION: 571.8				GWL: Depth	Date/Time	DATE STARTED: 06-APR-93				
ENGINEER/GEOLOGIST: J BOYER				Depth	Date/Time	DATE COMPLETE: 07-APR-93				
DRILLING METHOD: AUGER										
D E P T H	S A M P L E	D E E E	T I M E	B L O W S L E O N	R E C O V E R Y	I N C H E S	U S S C B S O L	T S F		
.5	112498 04/06/93 08:45	3		4	STIFF, (2.5Y 4/3) OLIVE BROWN, SILTY CLAYEY WITH GRAVEL, LOW PLASTICITY, MOIST			CL	2	PID=70 ppm BT=40 cpm
.5 1.0	110564 04/06/93 08:45	7		5	SAA			CL	2	PID=70 ppm BT=40 cpm
1.0 1.5	04/06/93 08:45	12		0	NO RECOVERY			N/A	N/A	PID=70 ppm BT=40 cpm
1.5 2.0	110565 04/06/93 14:40	20		6	MEDIUM DENSE, (2.5Y 5/4) LIGHT OLIVE BROWN, CLAYEY SILT, WITH GRAVEL, LOW PLASTICITY, SLIGHTLY MOIST			ML	N/A	PID=1 ppm BT=40 cpm
2.0 2.5	110566 04/06/93 14:40	20		6	SAA			ML	N/A	PID=1 ppm BT=40 cpm
2.5 3.0	110567 04/06/93 14:40	30		4	VERY STIFF, (2.5Y 5/6) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, SLIGHTLY MOIST			CL	3.5	PID=1 ppm BT=40 cpm
3.0 4.5	110568 04/06/93 15:15	N/A		9	SAMPLED WITH SHELBY TUBE			CL	N/A	PID=1 ppm BT=40 cpm
4.0 4.5	110568 04/06/93 15:15	N/A		12	SAA			CL	N/A	
4.5 5.0	110568 04/06/93 15:15	N/A		3	SAA			CL	N/A	PID=0 ppm BT=40 cpm
5.0 5.5	110569 04/06/93 15:45	4		6	MEDIUM STIFF, (2.5Y 5/4) LIGHT OLIVE BROWN, SILTY CLAY, MEDIUM PLASTICITY, MOIST			CL	1	PID=0 ppm BT=40 cpm
5.5 6.0	110569 04/06/93 15:45	4		6	SAA			CL	1	PID=0 ppm BT=40 cpm
6.0 6.5	110569 04/06/93 15:45	4		6	SAA			CL	1	PID=0 ppm BT=40 cpm
6.5 7.0	110569 04/06/93 15:45	7		6	STIFF, (2.5Y 5/4) LIGHT OLIVE BROWN, SILTY CLAY, MEDIUM PLASTICITY, MOTTLING, MOIST			CL	1.5	PID=0 ppm BT=40 cpm
NOTES:									SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 1977					COORDINATES: NORTH 477826.80 EAST 1379322.50			DATE:06-APR-93			
GROUND ELEVATION: 571.8					GWL: Depth Date/Time		DATE STARTED: 06-APR-93				
ENGINEER/GEOLOGIST: J BOYER					Depth Date/Time		DATE COMPLETE: 07-APR-93				
DRILLING METHOD: AUGER											
D E P T H	S A M P L E	D A T E E N	T I M E S O N	B L O W S A M P L E R Y	R E C O V E R E S	I N C H E S	S U S M C B S O L	T S F	REMARKS		
7.0	110569 04/06/93 15:45	6	6	SAA			CL	1.5	PID=0 ppm BT=40 cpm		
7.5	110569 04/06/93 15:45	10	6	VERY STIFF, (2.5Y 5/6) LIGHT OLIVE BROWN, SILTY CLAY, MEDIUM PLASTICITY, SLIGHT MOIST			CL	2.5	PID=0 ppm BT=40 cpm		
8.0	110570 04/06/93 16:00	13	6	VERY STIFF, (10YR 5/6) YELLOWISH BROWN, SILTY CLAY, LOW PLASTICITY, SLIGHTLY MOIST			CL	3	PID=0 ppm BT=40 cpm		
8.5	110571 04/06/93 16:25	8	6	VERY STIFF, (2.5Y 5/4) LIGHT OLIVE BROWN, LOW PLASTICITY, SILTY CLAY, WITH GRAVEL, SLIGHTLY MOIST			CL	2	PID=0 ppm BT=40 cpm		
9.0	110571 04/06/93 16:25	10	6	SAA			CL	2	PID=0 ppm BT=40 cpm		
9.5	110571 04/06/93 16:25	15	6	MEDIUM DENSE, (2.5Y 6/6) OLIVE YELLOW, CLAYEY SILT, SLIGHT PLASTICITY, SLIGHTLY MOIST			ML	N/A	PID=0 ppm BT=40 cpm		
10.0	110572 04/06/93 16:45	8	6	VERY STIFF, (2.5Y 5/4) LIGHT OLIVE BROWN, SILTY CLAY, MOTTLING, SLIGHT-LOW PLASTICITY, SLIGHTLY MOIST			CL	2	PID=0 ppm BT=40 cpm		
10.5	110573 04/06/93 16:45	16	6	MEDIUM DENSE, (2.5Y 5/6) LIGHT OLIVE, SILTY SAND, TRACE GRAVEL, MOIST, POORLY GRADED			SM	N/A	PID=0 ppm BT=40 cpm		
11.0	110574 04/06/93 16:45	21	6	SAA			SM	N/A	PID=0 ppm BT=40 cpm		
11.5	110575 04/07/93 09:55	16	6	DENSE, (2.5Y 5/6) LIGHT OLIVE BROWN, POORLY GRADED, SILTY SAND, WET			SM	N/A	PID=0 ppm BT=40 cpm		
12.0	110575 04/07/93 09:55	30	6	SAA			SM	N/A	PID=1 ppm BT=70 cpm		
12.5	110575 04/07/93 09:55	29	6	VERY DENSE, (2.5Y 6/1) GRAY, CLAYEY SILT, SLIGHT PLASTICITY, MOIST			ML	N/A	PID=1 ppm BT=70 cpm		
13.0	110575 04/07/93 09:55	47	6	SAA			ML	N/A	PID=1 ppm BT=70 cpm		
NOTES:											
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable											

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION									
BORING NUMBER: 1977					COORDINATES: NORTH 477826.80 EAST 1379322.50			DATE: 06-APR-93						
GROUND ELEVATION: 571.8					GWL: Depth	Date/Time		DATE STARTED: 06-APR-93						
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 07-APR-93						
DRILLING METHOD: AUGER														
D E P T H	S A M P L E	D A T E E E	B L O W S A M P L E O N	T I M E E E	R E C O V E R Y	I N C H E S		S Y M C B S O L	T S F	REMARKS				
13.5 14.0	110576 04/07/93 13:35	12		6	STIFF, (2.5Y 5/6) LIGHT OLIVE BROWN, SILTY CLAY, HIGH PLASTICITY, MOIST				CL	1.5	PID=1 ppm BT=75 cpm			
14.0 14.5	110577 04/07/93 13:35	19		6	SAA				CL	2.0	PID=1 ppm BT=75 cpm			
14.5 15.0	110578 04/07/93 13:45	N/A		6	SHELBY TUBE SAMPLING				CL	N/A	PID=1 ppm BT=75 cpm			
15.0 15.5	110578 04/07/93 13:45	N/A		6	SHELBY TUBE SAMPLING, SAMPLE WAS WET				CL	N/A	PID=1 ppm BT=65 cpm			
15.5 16.0	110578 04/07/93 13:45	N/A		6	SHELBY TUBE SAMPLING, SAMPLE WAS WET				CL	N/A	PID=1 ppm BT=65 cpm			
16.0 16.5	110578 04/07/93 13:45	N/A		6	SHELBY TUBE SAMPLING, SAMPLE WAS WET				CL	N/A	PID=1 ppm BT=65 cpm			
16.5 17.0	110579 04/07/93 14:10	23		6	STIFF, (2.5Y 5/1) GRAY, SILTY CLAY, WITH GRAVEL TO TRACE, LOW PLASTICITY, MOIST				CL	1	PID=1 ppm BT=65 cpm			
17.0 17.5	110579 04/07/93 14:10	35		6	SAA				CL	1.5	PID=1 ppm BT=65 cpm			
17.5 18.0	110579 04/07/93 14:10	57		6	SAA				CL	2	PID=1 ppm BT=65 cpm			
18.0 18.5	110579 04/07/93 14:10	78		6	VERY DENSE, (2.5Y 5/6) LIGHT OLIVE BROWN, CLAYEY SILT, SLIGHT PLASTICITY, DRY				ML	N/A				
NOTES:														
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable														

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1978					COORDINATES: NORTH 477395.02 EAST 1379639.05					
GROUND ELEVATION: 570.7					GWL: Depth	Date/Time		DATE STARTED: 16-APR-93		
ENGINEER/GEOLOGIST: MUSA KESELSIR					Depth	Date/Time		DATE COMPLETE: 16-APR-93		
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E E E	B L O W S N O	S A M P L E R E C O V E R Y	I N C H E S	U S Y S M C B S O L	T S F	REMARKS		
.5	112568 04/16/93 08:50	2	6	STIFF (10YR 3/2) VERY DARK GRAYISH BROWN, PEAT WITH HIGH ORGANIC CONTENT, MOIST				PT	2	PID=8 ppm BT=50 cpm
.5 1.0	112569 04/16/93 08:50	5	6	VERY STIFF, (10YR 4/3) BROWN, SILTY CLAY MEDIUM-HIGH PLASTICITY, WITH SOME PEBBLES, MOIST				CH	3	PID=8 ppm BT=50 cpm
1.0 1.5	112570 04/16/93 08:50	10	6	SAA				CH	3	PID=8 ppm BT=50 cpm
1.5 2.0	112571 04/16/93 08:50	15	6	SAA				CH	3	PID=8 ppm BT=50 cpm
2.0 2.5	112572 04/16/93 09:10	12	6	VERY STIFF (10YR 5/3) BROWN, SILTY CLAY MEDIUM TO HIGH PLASTICITY, FEW PEBBLES, MOIST				CH	3	PID=8 ppm BT=50 cpm
2.5 3.0	112573 04/16/93 09:10	14	6	SAA				CH	3	PID=8 ppm BT=50 cpm
3.0 3.5	112574 04/16/93 09:10	14	6	SAA				CH	3	PID=8 ppm BT=50 cpm
3.5 4.0	04/16/93 09:10	15	0	NO RECOVERY				N/A	N/A	
4.0 4.5	112575 04/16/93 09:30	5	6	VERY STIFF (10YR 5/3) BROWN, SILTY CLAY, MEDIUM-HIGH PLASTICITY, SOME LARGE GRAVEL AND PEBBLE, MOIST				CH	3	PID=8 ppm BT=60 cpm
4.5 5.0	112576 04/16/93 09:30	8	6	SAA				CH	3	PID=8 ppm BT=60 cpm
5.0 5.5	112577 04/16/93 09:30	9	6	SAA				CH	3	PID=8 ppm BT=60 cpm
5.5 6.0	112578 04/16/93 09:30	13	6	STIFF (10YR 3/2) VERY DARK GRAYISH BROWN, SILTY CLAY (FILL), MEDIUM PLASTICITY, MOIST, SOME PEBBLES				CL	2	PID=8 ppm BT=60 cpm
6.0 6.5	112579 04/16/93 09:45	9	6	STIFF (10YR 4/3) BROWN, SILTY CLAY, MEDIUM TO HIGH PLASTICITY, WITH SOME PEBBLES, MOIST				CH	1.5	PID=8 ppm BT=50 cpm

NOTES:

1 BAG 50 LBS VOLCLAY AND 1/2 BAG 94 LBS CEMENT WERE USED TO GROUT.

Boring Contractor: PENNSYLVANIA DRILLING
Driller: MARTY WALTER, JOE DEILEY
Drilling Equipment: ACKERSAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1978					COORDINATES: NORTH 477395.02 EAST 1379639.05				
GROUND ELEVATION: 570.7					GWL: Depth	Date/Time		DATE STARTED: 16-APR-93	
ENGINEER/GEOLOGIST: MUSA KESELSIR					Depth	Date/Time		DATE COMPLETE: 16-APR-93	
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E E	B L O W S I N G O N	S A M P L E R E C O V E R Y	I N C H E S		S U S M C B S O L	T S F	REMARKS
6.5 7.0	112590 04/16/93 09:45	10	6	SAA			CH	1.5	PID=8 ppm BI=50 cpm
7.0 7.5	112591 04/16/93 09:45	9	6	STIFF (10YR 2/2) VERY DARK BROWN, SILTY CLAY, MEDIUM TO HIGH PLASTICITY, MOIST			CH	2	PID=8 ppm BI=50 cpm
7.5 8.0	112580 04/16/93 09:45	10	6	SAA			CH	2	PID=8 ppm BI=50 cpm
8.0 8.5	112581 04/16/93 10:00	3	6	STIFF (10YR 5/3) BROWN, SILTY CLAY HIGH PLASTICITY, MOIST			CH	1.5	PID=8 ppm BI=40 cpm
8.5 9.0	112582 04/16/93 10:00	5	6	SAA			CH	1.5	PID=8 ppm BI=40 cpm
9.0 9.5	112583 04/16/93 10:00	6	6	SAA			CH	1.5	PID=8 ppm BI=40 cpm
9.5 10.0	112584 04/16/93 10:15	3	6	SAA			CH	2	PID=8 ppm BI=50 cpm
10.0 10.5	112584 04/16/93 10:15	5	6	SAA			CH	2	PID=8 ppm BI=50 cpm
10.5 11.0	112584 04/16/93 10:15	6	6	MEDIUM STIFF (5GY 6/1) GREENISH GRAY, SILTY CLAY HIGH PLASTICITY, MOIST TO WET			CH	1	PID=8 ppm BI=50 cpm
11.0 11.5	04/16/93 10:15	6	0	NO RECOVERY			N/A	N/A	
11.5 12.0	112585 04/16/93 10:30	5	6	VERY STIFF (5GY 4/1) DARK GREENISH GRAY SILTY CLAY, MEDIUM TO HIGH PLASTICITY, MOIST			CH	3	PID=8 ppm BI=40 cpm
12.0 12.5	112586 04/16/93 10:30	10	6	SAA			CH	3	PID=8 ppm BI=40 cpm
12.5 13.0	112587 04/16/93 10:30	15	6	STIFF (10YR 5/3) BROWN, SILTY CLAY, HIGH PLASTICITY, MOIST			CH	2	PID=8 ppm BI=40 cpm
NOTES: 1 BAG 50 LBS VOLCLAY AND 1/2 BAG 94 LBS CEMENT WERE USED TO GROUT.									
Boring Contractor: PENNSYLVANIA DRILLING Driller: MARTY WALTER, JOE DEILEY Drilling Equipment: ACKER									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1978				COORDINATES: NORTH 477395.02 EAST 1379639.05			DATE: 16-APR-93		
GROUND ELEVATION: 570.7				GWL: Depth	Date/Time		DATE STARTED: 16-APR-93		
ENGINEER/GEOLOGIST: MUSA KESELSIR				Depth	Date/Time		DATE COMPLETE: 16-APR-93		
DRILLING METHOD: HOLLOW STEM AUGER									
DEPTH	S A D T M A I P L E E	B L O W T M W S P L E	R S A C E E O V E I N C H E S				S Y S M C B S O L	T S F	REMARKS
13.0		18	0	NO RECOVERY			N/A	N/A	
13.5	04/16/93 10:30			SAA			CH	1	PID=8 ppm BT=50 cpm
13.5	112588 04/16/93 10:55	5	6	SAA			CH	2	PID=8 ppm BT=50 cpm
14.0	112588 04/16/93 10:55	20	6	SAA			CH	3	PID=8 ppm BT=50 cpm
14.5	112588 04/16/93 10:55	35	6	SAA			CL	5	PID=8 ppm BT=50 cpm
15.0	112589 04/16/93 10:55	50	4	HARD (10YR 5/1) GRAY, SILTY CLAY WITH SOME PEBBLES, MEDIUM PLASTICITY, DRY TO MOIST					
15.5									
NOTES: 1 BAG 50 LBS VOLCLAY AND 1/2 BAG 94 LBS CEMENT WERE USED TO GROUT.									Boring Contractor: PENNSYLVANIA DRILLING Driller: MARTY WALTER, JOE DEILEY Drilling Equipment: ACKER
									SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11009					COORDINATES: NORTH 478012.53 EAST 1379125.70 DATE: 06-APR-93				
GROUND ELEVATION: 566.9					GWL: Depth	Date/Time		DATE STARTED: 06-APR-93	
ENGINEER/GEOLOGIST: D O'BRIEN					Depth	Date/Time		DATE COMPLETE: 07-APR-93	
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D T I M E E E	B L O W S P L E O N	R E C O V E R Y	I N C H E S		S U S M C B S O L	T S F	REMARKS
.5	110527 04/06/93 10:05	14		3	VERY STIFF, (2.5Y,4/3) OLIVE BROWN, GRAVELLY CLAY WITH ORGANICS, NO PLASTICITY, DRY		CL	2.25	PID=0 ppm BT=300 cpm
1.0	04/06/93 10:05	25		0	NO RECOVERY		N/A	N/A	
1.5	04/06/93 10:05	18		0	NO RECOVERY		N/A	N/A	
2.0	110528 04/06/93 10:15	2		2	VERY STIFF, (2.5Y,4/3) OLIVE BROWN, GRAVELLY CLAY, NO PLASTICITY, DRY		CL	2.0	PID=0 ppm BT=300 cpm
2.5	04/06/93 10:15	4		6	NO RECOVERY		N/A	N/A	
3.0	04/06/93 10:15	3		0	NO RECOVERY		N/A	N/A	
3.5	110529 04/06/93 10:25	18		6	VERY STIFF, (2.5Y,4/3) OLIVE BROWN, CLAY GRAVELLY MIXED WITH FLYASH AND CONCRETE, NO PLASTICITY, DRY		CL	3.5	PID=0 ppm BT=900 cpm
4.0	110530 04/06/93 10:25	47		3	SAA		CL	3.75	PID=0 ppm BT=900 cpm
4.5	04/06/93 10:25	45		0	NO RECOVERY		N/A	N/A	
5.0	110531 04/06/93 10:35	18		6	VERY STIFF, (2.5Y,5/1) GRAY, GRAVELLY CLAY, NO PLASTICITY, DRY		CL	3.0	PID=0 ppm BT=200 cpm
5.5	110532 04/06/93 10:35	24		5	SAA		CL	2.75	PID=0 ppm BT=200 cpm
6.0	04/06/93 10:35	13		0	NO RECOVERY		N/A	N/A	
6.5	110533 04/06/93 10:45	5		5	VERY STIFF, (2.5Y,5/4) LIGHT OLIVE BROWN GRAVELLY SANDY CLAY, NO PLASTICITY, DRY		CL	2.25	PID=0 ppm BT=120 cpm
NOTES: BACKGROUND: HNU = 0 PPM, BETA GAMMA = 80 CPM									
Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: KEVIN MYERS, DONNY ARTHUR Drilling Equipment: ACKER SENTRY									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable,									

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11009				COORDINATES: NORTH 478012.53 EAST 1379125.70			DATE: 06-APR-93		
GROUND ELEVATION: 566.9				GWL: Depth Date/Time			DATE STARTED: 06-APR-93		
ENGINEER/GEOLOGIST: D O'BRIEN				Depth Date/Time			DATE COMPLETE: 07-APR-93		
DRILLING METHOD: HOLLOW STEM AUGER									
DEPTH	S A D T M A I P T M L E E	B L O W S M S P L E	R E C O V E R Y I N C H E S				S Y U S C B S O L	T S F	REMARKS
6.5 7.0	04/06/93 10:45	8 0	NO RECOVERY				N/A	N/A	
7.0 7.5	04/06/93 10:45	18 0	NO RECOVERY				N/A	N/A	
7.5 8.0	110534 04/06/93 11:00	14 6	DENSE, (2.5Y,5/1) GRAY, SILT WITH GRAVEL, MOIST				ML	N/A	PID=0 ppm BT=80 cpm
8.0 8.5	110535 04/06/93 11:00	14 6	VERY STIFF, (2.5Y,5/6) LIGHT OLIVE BROWN, SANDY GRAVELLY CLAY, NO PLASTICITY, WET				CL	2.5	PID=0 ppm BT=80 cpm
8.5 9.0	110536 04/06/93 11:00	18 6	SAA				CL	2.5	PID=0 ppm BT=80 cpm
9.0 9.5	110587 04/06/93 13:15	8 6	MEDIUM DENSE, (2.5Y,5/1) GRAY, GRAVELLY SILT, WET				ML	N/A	PID=0 ppm BT=100 cpm
9.5 10.0	110588 04/06/93 13:15	13 6	SAA				ML	N/A	PID=0 ppm BT=100 cpm
10.0 10.5	04/06/93 13:15	14 0	NO RECOVERY				N/A	N/A	
10.5 11.0	110589 04/06/93 13:30	4 6	VERY STIFF, (2.5Y,5/1) GRAY, GRAVELLY SILTY CLAY, NO PLASTICITY, WET				CL	2.5	PID=0 ppm BT=120 cpm
11.0 11.5	110590 04/06/93 13:30	5 4	MEDIUM DENSE, (2.5Y,5/1) GRAY, SANDY GRAVELLY SILT, WET				ML	N/A	PID=0 ppm BT=120 cpm
11.5 12.0	04/06/93 13:30	18 0	NO RECOVERY				N/A	N/A	
12.0 12.5	110591 04/06/93 13:40	4 6	MEDIUM DENSE, (2.5Y,5/1) GRAY, GRAVELLY CLAYEY SILT, WET				ML	N/A	PID=0 ppm BT=100 cpm
12.5 13.0	110592 04/06/93 13:40	5 5	MEDIUM DENSE, (2.5Y,5/1) GRAY, CLAYEY SAND WITH GRAVEL, WET				SC	N/A	PID=0 ppm BT=100 cpm
NOTES: BACKGROUND: HNU = 0 PPM, BETA GAMMA = 80 CPM									
Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: KEVIN MYERS, DONNY ARTHUR Drilling Equipment: ACKER SENTRY									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 11009					COORDINATES: NORTH 478012.53 EAST 1379125.70			DATE: 06-APR-93			
GROUND ELEVATION: 566.9					GWL: Depth Date/Time			DATE STARTED: 06-APR-93			
ENGINEER/GEOLOGIST: D O'BRIEN					Depth Date/Time			DATE COMPLETE: 07-APR-93			
DRILLING METHOD: HOLLOW STEM AUGER											
D E P T H	S A M P L E	D A I M E E	B L O W S P L E O N	S A M P L E E Y	R E C O V E R Y	I N C H E S		U S Y S M C B S O L	T S F	REMARKS	
13.0 13.5		04/06/93 13:40	18	0	NO RECOVERY			N/A	N/A		
13.5 14.0	110593 04/06/93 14:05		18	6	VERY DENSE, (2.5Y,5/1) GRAY, CLAYEY SAND WITH GRAVEL, MOIST			SC	N/A	PID=0 ppm BT=100 cpm	
14.0 14.5	110594 04/06/93 14:05		49	3	HARD, (2.5Y,5/1) GRAY, GRAVELLY CLAY, NO PLASTICITY, DRY			CL	4.5	PID=0 ppm BT=100 cpm	
14.5 15.0	04/06/93 14:05		50	0	NO RECOVERY			N/A	N/A		
15.0 15.5	110595 04/07/93 09:30		18	6	HARD, (2.5Y,5/1) GRAY, GRAVELLY CLAY, NO PLASTICITY, DRY			CL	4.0	PID=0 ppm BT=80 cpm	
15.5 16.0	110596 04/07/93 09:30		36	4	HARD, (10YR,4/6) DARK YELLOWISH BROWN, GRAVELLY CLAY, NO PLASTICITY, DRY			CL	4.5	PID=0 ppm BT=80 cpm	
16.0 16.5	04/07/93 09:30		50	0	NO RECOVERY			N/A	N/A		
NOTES: BACKGROUND: HNU = 0 PPM, BETA GAMMA = 80 CPM										Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: KEVIN MYERS, DONNY ARTHUR Drilling Equipment: ACKER SENTRY	
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11010					COORDINATES: NORTH 478066.92 EAST 1379108.78				
GROUND ELEVATION: 567.7					GWL: Depth 9.2	Date/Time 05-Apr-93 10:00		DATE STARTED: 02-APR-93	
ENGINEER/GEOLOGIST: D O'BRIEN					Depth	Date/Time		DATE COMPLETE: 05-APR-93	
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	A D T I M E	B L O W S O N	S A M P L E	R E C O V E R Y	I N C H E S	S U Y S M C B S O L	T S F	REMARKS
.5	110511 04/02/93 15:20	4	6		SOFT, (2.5Y, 6/3) LIGHT YELLOWISH BROWN, CLAY W/ORGANICS, LOW PLASTICITY, MOIST; BLACK FLYASH BOTTOM 3"		CL	.25	PID=0 ppm BT=100 cpm
.5 1.0	04/02/93 00:00	5	0		NO RECOVERY		N/A	N/A	
1.0 1.5	04/02/93 00:00	8	0		NO RECOVERY		N/A	N/A	
1.5 2.0	110512 04/02/93 15:25	N/A	N/A		VERY STIFF (10YR, 6/6) BROWNISH, YELLOW, GRAVELLY CLAY, NO PLASTICITY, DRY		CL	2.75	PID=0 ppm BT=80 cpm
2.0 2.5	110513 04/02/93 15:25	14	3		SAA		CL	2.5	PID=0 ppm BT=80 cpm
2.5 3.0	04/02/93 00:00	12	0		NO RECOVERY		N/A	N/A	
3.0 3.5	110514 04/02/93 15:30	20	3		VERY STIFF, (10YR, 6/6) BROWNISH YELLOW, GRAVELLY CLAY, TRACE FLYASH, NO PLASTICITY, DRY		CL	2	PID=0 ppm BT=60 cpm
3.5 4.0	04/02/93 00:00	22	0		NO RECOVERY		N/A	N/A	
4.0 4.5	04/02/93 00:00	25	0		NO RECOVERY		N/A	N/A	
4.5 5.0	110515 04/02/93 15:45	3	6		LOOSE, (10YR, 6/6) BROWNISH YELLOW, SILTY CLAYEY SAND, FINE, MOIST		SC	N/A	PID=0 ppm BT=60 cpm
5.0 5.5	110516 04/02/93 15:45	4	3		SAA		SC	N/A	PID=0 ppm BT=60 cpm
5.5 6.0	04/02/93 00:00	3	0		NO RECOVERY		N/A	N/A	
6.0 6.5	110517 04/02/93 16:00	16	6		TOP 2" DENSE (2.5Y, 5/6) LIGHT OLIVE BROWN, COARSE SAND WITH GRAVEL, WELL GRADED, WET; VERY STIFF, (2.5Y, 5/6) LIGHT OLIVE BROWN, GRAVELLY CLAY W/SILT, NHO PLASTICITY, DRY		SW CL	N/A 2.5	PID=0 ppm BT=60 cpm
NOTES:									
Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: KEVIN MYERS, DONNY ARTHUR Drilling Equipment: ACKER SENTRY									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION								
BORING NUMBER: 11010					COORDINATES: NORTH 478066.92 EAST 1379108.78								
GROUND ELEVATION: 567.7					GWL: Depth 9.2	Date/Time 05-Apr-93 10:00	DATE STARTED: 02-APR-93						
ENGINEER/GEOLOGIST: D O'BRIEN					Depth	Date/Time	DATE COMPLETE: 05-APR-93						
DRILLING METHOD: HOLLOW STEM AUGER													
D E P T H	S A M P L E	D T M E E	B L O W O N	S A M P L E	R E C O V E R Y	I N C H E S	S Y S M C B S O L	T S F	REMARKS				
6.5	110518 04/02/93 16:00	22		6	SAA			CL	2.5	PID=0 ppm BT=60 cpm			
7.0	04/02/93 00:00	25		0	NO RECOVERY			N/A	N/A				
7.5	110519 04/02/93 16:10	8		6	DENSE, (2.5Y, 5/1) GRAY, SILT, WET			N/A	N/A	PID=0 ppm BT=60 cpm			
8.0	04/02/93 00:00	22		0	NO RECOVERY			N/A	N/A				
8.5	04/02/93 00:00	24		0	NO RECOVERY			N/A	N/A				
9.0	110520 04/02/93 16:25	8		6	DENSE, (2.5Y, 5/1) GRAY, GRAVELLY SANDY SILT, WET			ML	N/A	PID=0 ppm BT=40 cpm			
9.5	110521 04/02/93 16:25	12		3	SAA			ML	N/A	PID=0 ppm BT=40 cpm			
10.0	04/02/93 00:00	20		0	NO RECOVERY			N/A	N/A				
10.5	110522 04/02/93 16:35	7		5	MEDIUM DENSE, (2.5Y, 5/1) GRAY GRAVELLY SILT, WET			ML	N/A	PID=0 ppm BT=40 cpm			
11.0	04/02/93 00:00	8		0	NO RECOVERY			N/A	N/A				
11.5	04/02/93 00:00	7		0	NO RECOVERY			N/A	N/A				
12.0	110523 04/05/93 09:50	4		6	STIFF, (2.5Y, 5/1) GRAY, GRAVELLY CLAY, LOW PLASTICITY, WET TO MOIST			CL	1.75	PID=0 ppm BT=60 cpm			
12.5	110524 04/05/93 09:30	8		5	VERY STIFF, (2.5Y, 5/1) GRAY GRAVELLY CLAY, NO PLASTICITY, SLIGHTLY MOIST			CL	2.25				
NOTES:										Boring Contractor: PENNVLVANIA DRILLING CO. Driller: KEVIN MYERS, DONNY ARTHUR Drilling Equipment: ACKER SENTRY			
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable													

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11010				COORDINATES: NORTH 478066.92 EAST 1379108.78			DATE: 02-APR-93		
GROUND ELEVATION: 567.7				GWL: Depth 9.2 Date/Time 05-Apr-93 10:00			DATE STARTED: 02-APR-93		
ENGINEER/GEOLOGIST: D O'BRIEN				Depth	Date/Time		DATE COMPLETE: 05-APR-93		
DRILLING METHOD: HOLLOW STEM AUGER									
DEPTH	SAMPLE	SAMPLING TIME	BLOW COUNT	RECOVERY	INCHES		SYMBOL	TSF	REMARKS
13.0	04/05/93 09:30	17	0	NO RECOVERY			N/A	N/A	
13.5	110525 04/02/93 13:10	4	5	VERY STIFF, (2.5Y, 5/1) GRAY GRAVELLY CLAY, NO PLASTICITY, SLIGHTLY MOIST			CL	2	PID=0 ppm BT=60 cpm
14.0	04/05/93 00:00	5	0	NO RECOVERY			N/A	N/A	
14.5	04/05/93 00:00	22	0	NO RECOVERY			N/A	N/A	
NOTES: Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: KEVIN MYERS, DONNY ARTHUR Drilling Equipment: ACKER SENTRY SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION								
BORING NUMBER: 11011					COORDINATES: NORTH 477937.53 EAST 1379125.69			DATE: 08-APR-93					
GROUND ELEVATION: 567.7					GWL: Depth	Date/Time		DATE STARTED: 08-APR-93					
ENGINEER/GEOLOGIST: D O'BRIEN					Depth	Date/Time		DATE COMPLETE: 12-APR-93					
DRILLING METHOD: HOLLOW STEM AUGER													
D E P T H	S A M P L E	D A T E E E	B L O W S O N	S A C O L E R Y	R E C O V E R Y E S	I N C H E S	S U Y S M C B S O L	T S F	REMARKS				
.5	110598 04/08/93 13:50	3		5	VERY STIFF (2.5Y, 3/3) DARK OLIVE BROWN, GRAVELLY CLAY WITH ORGANICS NO PLASTICITY, DRY			CL	2.5	PID=0 ppm BT=100 cpm			
.5 1.0	04/08/93 13:50	4		0	NO RECOVERY			N/A	N/A				
1.0 1.5	04/08/93 13:50	8		0	NO RECOVERY			N/A	N/A				
1.5 2.0	110599 04/08/93 13:52	8		6	STIFF (10YR, 4/4) DARK YELLOWISH BROWN CLAY WITH GRAVEL, LOW PLASTICITY, SLIGHTLY MOIST			CL	1.75	PID=0 ppm BT=150 cpm			
2.0 2.5	110600 04/08/93 13:52	12		4	SAA			CL	1.75	PID=0 ppm BT=150 cpm			
2.5 3.0	04/08/93 13:52	14		0	NO RECOVERY			N/A	N/A				
3.0 3.5	110601 04/08/93 13:55	18		6	VERY STIFF (2.5Y, 5/6) LIGHT OLIVE BROWN, GRAVELLY CLAY WITH CONCRETE, FLYASH, LOW PLASTICITY, SLIGHTLY MOIST			CL	2.5	PID=0 ppm BT=100 cpm			
3.5 4.0	110602 04/08/93 13:55	47		6	SAA			CL	3.75	PID=0 ppm BT=100 cpm			
4.0 4.5	04/08/93 14:00	26		0	NO RECOVERY			N/A	N/A				
4.5 5.0	110603 04/08/93 14:10	6		4	STIFF (2.5Y, 5/6) LIGHT OLIVE BROWN, GRAVELLY CLAY WITH ORGANICS, NO PLASTICITY, DRY			CL	1.25	PID=0 ppm BT=150 cpm			
5.0 5.5	04/08/93 14:15	7		0	NO RECOVERY			N/A	N/A				
5.5 6.0	04/08/93 14:15	9		0	NO RECOVERY			N/A	N/A				
6.0 6.5	110604 04/08/93 14:20	4		3	MEDIUM STIFF (2.5Y, 5/4) LIGHT OLIVE BROWN, GRAVELLY CLAY, LOW PLASTICITY, MOIST			CL	.75	PID=0 ppm BT=100 cpm			
NOTES:													
Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: KEVIN MYERS, DONNY ARTHUR Drilling Equipment: ACKER SENTRY													
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable													

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION										
BORING NUMBER: 11011					COORDINATES: NORTH 477937.53 EAST 1379125.69			DATE: 08-APR-93							
GROUND ELEVATION: 567.7					GWL: Depth		Date/Time		DATE STARTED: 08-APR-93						
ENGINEER/GEOLOGIST: D O'BRIEN					Depth		Date/Time		DATE COMPLETE: 12-APR-93						
DRILLING METHOD: HOLLOW STEM AUGER															
D E P T H	S A M P L E E	D R I V E T E E	B L O W S M A I N E O N	S A M P L E R E C O V E R Y	I N C H E S		S Y U S M C B S O L	T S F	REMARKS						
6.5	04/08/93 14:20	6	0	NO RECOVERY					N/A	N/A					
7.0	04/08/93 14:20	6	0	NO RECOVERY					N/A	N/A					
7.5	04/08/93 14:20	1	0	NO RECOVERY					N/A	N/A					
8.0	04/08/93 14:20	3	0	NO RECOVERY					N/A	N/A					
8.5	04/08/93 14:20	4	0	NO RECOVERY					N/A	N/A					
9.0	110605 04/08/93 14:45	6	6	STIFF (2.5Y 4/3) OLIVE BROWN, GRAVELLY CLAY WITH FLYASH AND CONCRETE, LOW PLASTICITY, MOIST					CL	1					
9.5	110606 04/08/93 14:45	6	3	SAA					CL	1					
10.0	04/08/93 14:45	12	0	NO RECOVERY					N/A	N/A					
10.5	110607 04/08/93 14:55	8	4	STIFF (2.5Y, 4/3) OLIVE BROWN, GRAVELLY CLAY WITH FLYASH, NO PLASTICITY, MOIST					CL	1					
11.0	04/08/93 14:55	25	0	NO RECOVERY					N/A	N/A					
11.5	04/08/93 14:55	26	0	NO RECOVERY					N/A	N/A					
12.0	110608 04/08/93 15:05	8	6	STIFF (10YR, 4/6) DARK YELLOWISH BROWN, GRAVELLY CLAY WITH FLYASH, LOW PLASTICITY, MOIST					CL	1					
12.5	110609 04/08/93 15:05	13	6	STIFF (10YR, 4/6) DARK YELLOWISH BROWN GRAVELLY, SANDY CLAY WITH COPPER WIRE, LOW PLASTICITY, MOIST					CL	1					
13.0															
NOTES:															
Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: KEVIN MYERS, DONNY ARTHUR Drilling Equipment: ACKER SENTRY															
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable															

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11011					COORDINATES: NORTH 477937.53 EAST 1379125.69			DATE: 08-APR-93	
GROUND ELEVATION: 567.7					GWL: Depth	Date/Time		DATE STARTED: 08-APR-93	
ENGINEER/GEOLOGIST: D O'BRIEN					Depth	Date/Time		DATE COMPLETE: 12-APR-93	
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E E	T M S E	B L O N E	R A C P E L Y	E I C H E S	S Y S M C B S O L	T S F	REMARKS
13.0	110610 04/08/93 15:05	14	4	SAA			CL	1	PID=0 ppm BT=100 cpm
13.5	110611 04/08/93 15:15	14	6	STIFF (10YR, 2/2) VERY DARK BROWN, SANDY CLAY WITH GRAVEL, NO PLASTICITY, MOIST			CL	1.25	PID=0 ppm BT=100 cpm
14.0	110612 04/08/93 15:15	22	6	SAA			CL	1.25	PID=0 ppm BT=100 cpm
14.5	110613 04/08/93 15:15	28	6	HARD (2.5Y, 4/4) OLIVE BROWN, CLAY WITH GRAVEL, NO PLASTICITY, DRY			CL	4.5	PID=0 ppm BT=100 cpm
15.0	110614 04/08/93 15:35	24	6	HARD (10YR, 5/6) DARK YELLOWISH BROWN, GRAVELLY CLAY, NO PLASTICITY, DRY			CL	4.5	PID=0 ppm BT=100 cpm
15.5	110615 04/08/93 15:30	24	3	SAA			CL	4.5	PID=0 ppm BT=100 cpm
16.0	04/08/93 15:40	28	0	NO RECOVERY			N/A	N/A	
16.5	110616 04/08/93 15:45	9	6	STIFF (2.5Y, 4/4) OLIVE BROWN, GRAVELLY CLAY WITH CONCRETE & WIRE, NO PLASTICITY, DRY			CL	1.25	PID=0 ppm BT=100 cpm
17.0	110617 04/08/93 15:45	12	6	SAA			CL	1.25	PID=0 ppm BT=100 cpm
17.5	04/08/93 15:45	16	0	NO RECOVERY			N/A	N/A	
18.0	110618 04/08/93 16:15	3	6	STIFF (2.5Y, 4/4) OLIVE BROWN, SANDY CLAY WITH GRAVEL, NO PLASTICITY, DRY			CL	1.75	PID=0 ppm BT=50 cpm
18.5	04/08/93 16:15	4	0	NO RECOVERY			N/A	N/A	
19.0	04/08/93 16:15	5	0	NO RECOVERY			N/A	N/A	
NOTES:									
Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: KEVIN MYERS, DONNY ARTHUR Drilling Equipment: ACKER SENTRY									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION										
BORING NUMBER: 11012					COORDINATES: NORTH 478019.56 EAST 1379211.26										
GROUND ELEVATION: 570.1					GWL: Depth	Date/Time		DATE STARTED: 20-OCT-92							
ENGINEER/GEOLOGIST: A COMO					Depth	Date/Time		DATE COMPLETE: 03-DEC-92							
DRILLING METHOD: HOLLOW STEM AUGER															
D E P T H	S A M P L E	D A T E E E	B L O W S O N	T I M E E R Y	S A M P L E R E C O V E R Y	I N C H E S	U Y S M C B S O L	T S F	REMARKS						
.5	110687 04/07/93 14:35	3		6	HARD, (2.5Y,5/4) LIGHT OLIVE BROWN, SILTY CLAY WITH SOME SMALL PIECES OF GRAVEL, LOW PLASTICITY, MOIST					PID=0 ppm BT=60-80 cpm					
.5	110688 04/07/93 14:35	5		6	SAA					PID=0 ppm BT=60-80 cpm					
1.0	110689 04/07/93 14:35	9		6	SAA					PID=0 ppm BT=60-80 cpm					
1.5	110690 04/07/93 14:38	10		6	HARD, (2.5Y,6/6) OLIVE YELLOW, SILTY CLAY, SOME SMALL GRAVEL, NO PLASTICITY, DRY					PID=0 ppm BT=60-80 cpm					
2.0	110691 04/07/93 14:38	12		6	SAA					PID=0 ppm BT=60-80 cpm					
2.5	04/07/93 14:38	12		0	NO RECOVERY					N/A N/A					
3.0	110692 04/07/93 14:45	5		6	STIFF, (2.5Y,5/4) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, DRY					PID=0 ppm BT=60-80 cpm					
3.5	110693 04/07/93 14:45	6		6	SAA					PID=0 ppm BT=60-80 cpm					
4.0	110694 04/07/93 14:45	6		2	SAA					PID=0 ppm BT=60-80 cpm					
4.5	110695 04/07/93 14:47	7		6	VERY STIFF, (2.5Y,5/6) LIGHT OLIVE BROWN, SILTY CLAY, SOME GRAVEL, LOW PLASTICITY, DRY					PID=0 ppm BT=60-80 cpm					
5.0	110696 04/07/93 14:47	8		6	SAA					PID=0 ppm BT=60-80 cpm					
5.5	04/07/93 14:47	7		0	NO RECOVERY					N/A N/A					
6.0	110697 04/07/93 14:55	8		6	VERY STIFF, (2.5Y,6/6) OLIVE YELLOW, SILTY CLAY WITH (2.5Y,8/10) WHITE CLAY INTERBEDDED, LOW PLASTICITY, SOME GRAVEL, DRY					PID=0 ppm BT=60-80 cpm					
NOTES: HYDROPUNCH BORING; BACKGROUND: HNU = 0 PPM, BETA GAMMA = 80 CPM										Driller: DON SMITH Drilling Equipment: MOBILE B-80					
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable															

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 11012					COORDINATES: NORTH 478019.56 EAST 1379211.26			DATE: 20-OCT-92			
GROUND ELEVATION: 570.1					GWL: Depth	Date/Time		DATE STARTED: 20-OCT-92			
ENGINEER/GEOLOGIST: A COMO					Depth	Date/Time		DATE COMPLETE: 03-DEC-92			
DRILLING METHOD: HOLLOW STEM AUGER											
D E P T H	S A M P L E	D A T E E	T I M E E	B L O W S P E R E O N	S A M C O P L E R Y	R E C O V E R E S	I N C H E S	U S S C B S O L	T S F	REMARKS	
6.5	110698 04/07/93 14:55	10	6	SAA					CL	3	PID=0 ppm BT=60-80 cpm
7.0	110699 04/07/93 14:55	13	4	SAA					CL	3	PID=0 ppm BT=60-80 cpm
7.5	110700 04/07/93 15:05	14	6	SAA					CL	2	PID=0 ppm BT=80-100 cpm
8.0	110701 04/07/93 15:05	18	6	VERY STIFF, (2.5Y,7/0) LIGHT GRAY, SILTY CLAY SOME GRAVEL, LOW PLASTICITY, DRY					CL	3.5	PID=0 ppm BT=80-100 cpm
8.5	110702 04/07/93 15:05	24	6	SAA					CL	1.5	PID=0 ppm BT=80-100 cpm
9.0	110703 04/07/93 15:20	21	6	SAA					CL	1	PID=0 ppm BT=60-80 cpm
9.5	110704 04/07/93 15:20	23	6	STIFF, (2.5Y,7/0) LIGHT GRAY, SILTY CLAY, SOME GRAVEL, MEDIUM PLASTICITY, WET					CL	1.5	PID=0 ppm BT=60-80 cpm
10.0	110705 04/07/93 15:20	28	6	VERY DENSE (2.5Y, 5/3) LIGHT OLIVE BROWN, SILTY SAND, NO PLASTICITY, WET					SM	N/A	PID=0 ppm BT=60-80 cpm
10.5	110706 04/07/93 15:35	4	6	VERY STIFF, (2.5Y,6/4) SILTY CLAY, MEDIUM PLASTICITY, WET					CL	2.5	PID=0 ppm BT=40-60 cpm
11.0	110707 04/07/93 15:35	6	6	SAA					CL	2.5	PID=0 ppm BT=40-60 cpm
11.5	110708 04/07/93 15:35	5	3	MEDIUM DENSE, (2.5Y,5/3) LIGHT OLIVE BROWN, SILTY SAND, NO PLASTICITY, WET					SM	N/A	PID=0 ppm BT=40-60 cpm
12.0	110709 04/07/93 15:40	15	6	SAA					SM	N/A	PID=0 ppm BT=60-80 cpm
12.5	110710 04/07/93 15:40	10	6	SAA					SM	N/A	PID=0 ppm BT=60-80 cpm
NOTES: HYDROPUCK BORING; BACKGROUND: HNU = 0 PPM, BETA GAMMA = 80 CPM										Driller: DON SMITH Drilling Equipment: MOBILE B-80	
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION										
BORING NUMBER: 11012					COORDINATES: NORTH 478019.56 EAST 1379211.26										
GROUND ELEVATION: 570.1					GWL: Depth	Date/Time		DATE STARTED: 20-OCT-92							
ENGINEER/GEOLOGIST: A COMO					Depth	Date/Time		DATE COMPLETE: 03-DEC-92							
DRILLING METHOD: HOLLOW STEM AUGER															
D E P T H	S A M P T H E	D A M E E E	T I M E S L E	B L O W S P L E N O	R E A M O P V R E Y	I N C H E S	S U Y S M C B S O L	T S F	REMARKS						
13.0	110711 04/07/93 15:40	15	6	VERY STIFF, (2.5Y,5/0) GRAY, SILTY CLAY, SOME GRAVEL, LOW PLASTICITY, DRY					CL	2.5	PID=0 ppm BG=60-80 cpm				
13.5	110712 04/08/93 10:05	12	6	MEDIUM DENSE (2.5Y,5/4) DARK GRAY, SILTY SAND, SOME GRAVEL, NO PLASTICITY, MOIST					SM	N/A	PID=0 ppm BG=40-60 cpm				
14.0	110713 04/08/93 10:05	12	6	STIFF, (2.5Y,5/0) GRAY, SILTY CLAY, SOME SMALL GRAVEL, MEDIUM PLASTICITY, DRY					CL	2	PID=0 ppm BG=40-60 cpm				
14.5	04/08/93 10:05	17	0	NO RECOVERY					N/A	N/A					
NOTES: HYDROPUNCH BORING; BACKGROUND: HNU = 0 PPM, BETA GAMMA = 80 CPM										Driller: DON SMITH Drilling Equipment: MOBILE B-80					
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable															

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PROJECT NUMBER: 20.03.05						PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION							
BORING NUMBER: 11013						COORDINATES: NORTH 478009.63 EAST 1379539.72			DATE: 17-APR-93				
GROUND ELEVATION: 578.9						GWL: Depth 7 Date/Time 17-Apr-93 13:05			DATE STARTED: 17-APR-93				
ENGINEER/GEOLOGIST: J REAGAN						Depth	Date/Time		DATE COMPLETE: 17-APR-93				
DRILLING METHOD: HOLLOW STEM AUGER													
D E P T H	S A M P L E	D T I M E	B L O W S O N	S A M P L E	R E C O V E R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS			
.5	112742 04/17/93 10:10	5		6	SOFT (10YR, 3/3) DARK YELLOWISH BROWN, SILTY FINE SAND, LOW PLASTICITY, MOIST			ML	.5	PID=1 ppm BI=80 cpm			
1.0	112793 04/17/93 10:10	12		6	VERY STIFF (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, SLIGHTLY PLASTIC, MOIST			CL	3	PID=1 ppm BI=80 cpm			
1.5	04/17/93 10:10	14		0	NO RECOVERY			N/A	N/A				
2.0	112794 04/17/93 10:20	14		6	VERY STIFF (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, SLIGHTLY PLASTIC, MOIST			CL	3	PID=1 ppm BI=100 cpm			
2.5	112795 04/17/93 10:20	17		6	VERY STIFF (10YR, 5/6) YELLOWISH BROWN, (10YR, 7/2) LIGHT GRAY MOTTLES, SILTY CLAY, SLIGHTLY PLASTIC, MOIST			CL	3.5	PID=1 ppm BI=100 cpm			
3.0	112796 04/17/93 10:20	23		2	VERY STIFF (10YR, 5/6) YELLOWISH BROWN, (10YR, 7/1) LIGHT GRAY MOTTLES, SILTY CLAY, SLIGHTLY PLASTIC, MOIST			CL	4	PID=1 ppm BI=100 cpm			
3.5	112797 04/17/93 10:30	27		6	SAA			CL	3	PID=1 ppm BI=100 cpm			
4.0	112798 04/17/93 10:30	26		6	SAA			CL	3	PID=1 ppm BI=100 cpm			
4.5	112799 04/17/93 10:30	28		2	SAA			CL	3	PID=1 ppm BI=100 cpm			
5.0	112800 04/17/93 10:45	5		6	VERY STIFF (10YR, 5/8) YELLOWISH BROWN, SILTY CLAY, SLIGHTLY PLASTIC, MOIST			CL	2	PID=1 ppm BI=60 cpm			
5.5	112801 04/17/93 10:45	9		6	SAA			CL	1.5	PID=1 ppm BI=60 cpm			
6.0	112802 04/17/93 10:45	23		6	DENSE (10YR, 5/8) YELLOWISH BROWN, SILTY FINE SAND, LOW PLASTICITY, WET			ML	0	PID=1 ppm BI=60 cpm			
6.5	112803 04/17/93 10:55	6		6	SAA			ML	0	PID=1 ppm BI=80 cpm			
NOTES:													
Driller: KEVIN MYERS, GEORGE BULLIT Drilling Equipment: AUGER RIG													
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable													

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11013					COORDINATES: NORTH 478009.63 EAST 1379539.72 DATE: 17-APR-93					
GROUND ELEVATION: 578.9					GWL: Depth 7 Date/Time 17-Apr-93 13:05 DATE STARTED: 17-APR-93					
ENGINEER/GEOLOGIST: J REAGAN					Depth Date/Time			DATE COMPLETE: 17-APR-93		
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E E E	B L O W S O N	S A M P L E R Y	I N C O V E R Y	R E C O V E R Y	S U Y S M C B S O L	T S F	REMARKS	
6.5 7.0		112804 04/17/93 10:55	9	6	SAA			ML	0	PID=1 ppm BT=80 cpm
7.0 7.5		112805 04/17/93 10:55	17	2	SAA			ML	0	PID=1 ppm BT=80 cpm
7.5 8.0		112806 04/17/93 11:10	6	6	SAA			ML	0	PID=1 ppm BT=60 cpm
8.0 8.5		112807 04/17/93 11:10	9	6	SAA			ML	0	PID=1 ppm BT=60 cpm
8.5 9.0		112808 04/17/93 11:10	11	6	VERY STIFF (10YR, 6/6) BROWNISH YELLOW, (10YR, 6/1) GRAY MOTTLES, SILTY CLAY, MOIST, SLIGHTLY PLASTIC			CL	3.25	PID=1 ppm BT=60 cpm
9.0 9.5		112810 04/17/93 13:40	10	6	STIFF (2.5Y, 5/4) LIGHT OLIVE BROWN, (10YR, 6/1) GRAY MOTTLES, SILTY CLAY, SLIGHTLY PLASTIC, MOIST			CL	2	PID=1 ppm BT=60 cpm
9.5 10.0		112811 04/17/93 13:40	16	6	VERY STIFF (2.5Y, 5/4) LIGHT OLIVE BROWN, (2.5Y, 6/1) GRAY MOTTLES, SILTY CLAY, SLIGHTLY PLASTIC, MOIST			CL	2.5	PID=1 ppm BT=60 cpm
10.0 10.5		04/17/93 13:45	17	0	NO RECOVERY			N/A	N/A	
NOTES:										
Driller: KEVIN MYERS, GEORGE BULLIT Drilling Equipment: AUGER RIG SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11014					COORDINATES: NORTH 477968.94 EAST 1379698.75				
GROUND ELEVATION: 579					GWL: Depth 5.5	Date/Time 30-Mar-93 14:00		DATE STARTED: 30-MAR-93	
ENGINEER/GEOLOGIST: D O'BRIEN					Depth	Date/Time		DATE COMPLETE: 30-MAR-93	

DRILLING METHOD: HOLLOW STEM AUGER

D E P T H	S A M P L E	D A T E E E N	T I M E S P L E R Y	B L O W M O U E R E C O V L E R Y	R E C O V E R Y	I N C H E S	S U S C B S O L	T S F	REMARKS
.5	110468 03/30/93 09:35	3	6	VERY STIFF (2.5Y, 5/6) LIGHT OLIVE BROWN, GRAVELLY CLAY WITH ORGANICS, LOW PLASTICITY, SLIGHTLY MOIST			CL	2.25	PID=0 ppm BT=100 cpm
.5 1.0	110469 03/30/93 09:35	3	6	SAA			CL	2.25	PID=0 ppm BT=100 cpm
1.0 1.5	110470 03/30/93 09:35	5	6	SAA			CL	2.5	PID=0 ppm BT=100 cpm
1.5 2.0	110471 03/30/93 09:45	10	6	SAA, HARD			CL	4.5	PID=0 ppm BT=100 cpm
2.0 2.5	110472 03/30/93 09:45	18	6	SAA, VERY STIFF			CL	2.75	PID=0 ppm BT=100 cpm
2.5 3.0	03/30/93 09:45	24	0	NO RECOVERY			N/A	N/A	
3.0 3.5	110473 03/30/93 09:55	4	6	VERY STIFF (2.5Y, 5/6) LIGHT OLIVE BROWN, GRAVELLY CLAY, NO PLASTICITY, DRY			CL	2.25	PID=0 ppm BT=100 cpm
3.5 4.0	110474 03/30/93 09:55	9	4	STIFF (2.5Y, 6/6) OLIVE YELLOW, GRAVELLY CLAY, LOW PLASTICITY, MOIST			CL	1.25	PID=0 ppm BT=100 cpm
4.0 4.5	03/30/93 09:55	8	0	NO RECOVERY			N/A	N/A	
4.5 5.0	110475 03/30/93 10:50	4	6	STIFF (2.5Y, 5/6) LIGHT OLIVE BROWN, CLAY WITH GRAVEL, LOW PLASTICITY, WET			CL	1.25	PID=0 ppm BT=100 cpm
5.0 5.5	110476 03/30/93 10:50	9	6	SAA, MEDIUM STIFF			CL	.75	PID=0 ppm BT=100 cpm
5.5 6.0	110477 03/30/93 10:50	13	3	SAA, MEDIUM STIFF			CL	.75	PID=0 ppm BT=100 cpm
6.0 6.5	110478 03/30/93 10:55	5	6	STIFF (2.5Y, 5/6) LIGHT OLIVE BROWN CLAY WITH SILT, LOW PLASTICITY, WET			CL	1.25	PID=0 ppm BT=100 cpm

NOTES:

Boring Contractor: PENNSYLVANIA DRILLING
Driller: CRAIG CAULTER, KEVIN MYERS
Drilling Equipment: ACKER SENTRY

SAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11014					COORDINATES: NORTH 477968.94 EAST 1379698.75				
GROUND ELEVATION: 579					GWL: Depth 5.5 Date/Time 30-Mar-93 14:00				
ENGINEER/GEOLOGIST: D O'BRIEN					Depth	Date/Time		DATE COMPLETE: 30-MAR-93	
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E E	B I M S O N	R C O V E R Y	I N C H E S	S U Y S M C B S O L	T S F	REMARKS	
6.5 7.0	110479 03/30/93 10:55	6	6		MEDIUM DENSE (2.5Y, 5/6) LIGHT OLIVE BROWN, CLAYEY SILT, WET	ML	N/A	PID=0 ppm BT=100 cpm	
7.0 7.5	110480 03/30/93 10:55	8	6		SAA	ML	N/A	PID=0 ppm BT=100 cpm	
7.5 8.0	110481 03/30/93 11:05	13	6		SAA	ML	N/A	PID=0 ppm BT=100 cpm	
8.0 8.5	110482 03/30/93 11:05	13	6		SAA	ML	N/A	PID=0 ppm BT=100 cpm	
8.5 9.0	110483 03/30/93 11:05	20	6		HARD (2.5Y, 5/6) LIGHT OLIVE BROWN, MOTTLED WITH GRAY CLAY, NO PLASTICITY, DRY	CL	4	PID=0 ppm BT=100 cpm	
9.0 9.5	110484 03/30/93 14:15	7	6		STIFF (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY, LITTLE GRAVEL, LOW PLASTICITY, MOIST	CL	1.25	PID=0 ppm BT=100 cpm	
9.5 10.0	110485 03/30/93 14:15	9	6		SAA, MOIST TO DRY	CL	1.25	PID=0 ppm BT=100 cpm	
10.0 10.5	110486 03/30/93 14:15	11	6		SAA, DRY	CL	1.5	PID=0 ppm BT=100 cpm	
NOTES:									
Boring Contractor: PENNSYLVANIA DRILLING Driller: CRAIG CAULTER, KEVIN MYERS Drilling Equipment: ACKER SENTRY									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 602.20.03.05					PROJECT NAME:						
BORING NUMBER: 11015					COORDINATES: NORTH 477922.19 EAST 1379788.82 DATE: 25-MAR-93						
GROUND ELEVATION: 578.5					GWL: Depth 4 Date/Time 25-Mar-93 14:15 DATE STARTED: 25-MAR-93						
ENGINEER/GEOLOGIST: MIKE WORLEY					Depth	Date/Time			DATE COMPLETE: 25-MAR-93		
DRILLING METHOD: AUGER											
D E P T H	S A M P L E	D T I M E	B L O W S E N O N	S A M W M P L E	R E C O V R Y	I N C H E S		S Y S M C B S O L	T S F	REMARKS	
.5	110456 03/25/93 10:15	4	6	STIFF, (2.5Y, 4/2) DARK GRAYISH BROWN, CLAY, TRACE COBBLES AND ORGANICS, MEDIUM PLASTICITY, MOIST					CL	1.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=100$ cpm
.5	110437 03/25/93 10:15	9	6	STIFF, (2.5Y, 4/3) OLIVE BROWN, CLAY, TRACE COBBLES, LOW PLASTICITY, MOIST					CL	2.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=100$ cpm
1.0	110438 03/25/93 10:15	12	2	STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, CLAY, TRACE LARGE COBBLES, MOIST, LOW PLASTICITY					CL	2.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=100$ cpm
1.5	110439 03/25/93 10:20	18	6	STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN CLAY, TRACE GRAVEL, MOIST, LOW PLASTICITY					CL	2.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=100$ cpm
2.0	110440 03/25/93 10:20	30	6	SAA					CL	2.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=100$ cpm
2.5	03/25/93 10:20	39	N/A	NO RECOVERY (REFUSAL AFTER 2 ATTEMPTS)					N/A	N/A	
3.0	110441 03/25/93 10:40	7	6	VERY STIFF, (2.5Y, 5/6) LIGHT OLIVE BROWN CLAY, TRACE GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST					CL	2.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
3.5	110442 03/25/93 10:40	13	6	SAA					CL	2.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
4.0	110443 03/25/93 10:40	16	6	STIFF, SAA					CL	1.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
4.5	110444 03/25/93 10:50	6	6	STIFF, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, SLIGHTLY MOIST					CL	1.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
5.0	110445 03/25/93 10:50	10	6	STIFF, (2.5Y, 5/6) LIGHT OLIVE BROWN SILTY CLAY, SLIGHTLY MOIST, LOW PLASTICITY					CL	1.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
5.5	110446 03/25/93 10:50	17	6	SAA					CL	1.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
6.0	110447 03/25/93 11:00	9	6	STIFF, (2.5Y, 5/6) GRAY MOTTLED LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, MOIST					CL	1.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm

NOTES:

Boring Contractor: PENNSYLVANIA DRILLING CO.
 Driller: CRAIG COULTER
 Drilling Equipment: ACKER SENTRY

SAA = Same as Above
 PID = Photoionization Detector
 N/A = Not Applicable

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PROJECT NUMBER: 602.20.03.05					PROJECT NAME:				
BORING NUMBER: 11015					COORDINATES: NORTH 477922.19 EAST 1379788.82			DATE: 25-MAR-93	
GROUND ELEVATION: 578.5					GWL: Depth 4	Date/Time 25-Mar-93 14:15	DATE STARTED: 25-MAR-93		
ENGINEER/GEOLOGIST: MIKE WORLEY					Depth	Date/Time	DATE COMPLETE: 25-MAR-93		
DRILLING METHOD: AUGER									
D E P T H	S A M P T L E	D R I V E E E	B L O W S A M P L E O N	S R E C O U R E Y	I N C H E R E S		S U Y S M C B S O L	T S F	
6.5 7.0	110448 03/25/93 11:00	11	6	SAA			CL	1.5	PID=0 ppm $\alpha=0$ ppm BT=50 cpm
7.0 7.5	110449 03/25/93 11:00	14	6	VERY STIFF, SAA			CL	2.5	PID=0 ppm $\alpha=0$ ppm BT=50 cpm
7.5 8.0	110450 03/25/93 13:30	10	6	VERY STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, CLAYEY SILT, LOW PLASTICITY, WET			ML	2.5	PID=0 ppm $\alpha=0$ ppm BT=50 cpm
8.0 8.5	110451 03/25/93 13:30	14	6	SAA			ML	2.5	PID=0 ppm $\alpha=0$ ppm BT=50 cpm
8.5 9.0	110452 03/25/93 13:30	19	6	SAA			ML	2.5	PID=0 ppm $\alpha=0$ ppm BT=80 cpm
9.0 9.5	110453 03/25/93 14:40	7	6	STIFF, (2.5Y, 5/4) GRAY MOTTLED LIGHT OLIVE BROWN SILTY CLAY, LOW PLASTICITY, MOIST			CL	2.0	PID=0 ppm $\alpha=0$ ppm BT=60 cpm
9.5 10.0	110454 03/25/93 14:40	12	6	SAA			CL	2.0	PID=0 ppm $\alpha=0$ ppm BT=60 cpm
10.0 10.5	110455 03/25/93 14:40	18	3	STIFF, (2.5Y, 5/4) GRAY MOTTLED LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, MOIST			CL	2.0	PID=0 ppm $\alpha=0$ ppm BT=60 cpm
10.5 11.0	110456 03/25/93 14:45	18	6	VERY STIFF, (2.5Y, 5/4) GRAY MOTTLED LIGHT OLIVE BROWN SILTY CLAY, LOW PLASTICITY, MOIST			CL	3.5	PID=0 ppm $\alpha=0$ ppm BT=50 cpm
11.0 11.5	110457 03/25/93 14:45	26	6	VERY STIFF, (2.5Y, 5/2) GRAYISH BROWN CLAYEY SILT, LOW PLASTICITY, MOIST			ML	3.5	PID=0 ppm $\alpha=0$ ppm BT=50 cpm
11.5 12.0	110458 03/25/93 14:45	32	6	SAA			ML	3.0	PID=0 ppm $\alpha=0$ ppm BT=50 cpm
12.0 12.5	110459 03/25/93 15:45	19	6	VERY STIFF, (2.5Y, 5/3) LIGHT OLIVE BROWN, SILTY CLAY, MEDIUM PLASTICITY, MOIST			CL	3.0	PID=0 ppm $\alpha=0$ ppm BT=50 cpm
12.5 13.0	110460 03/25/93 15:45	24	6	VERY STIFF, (2.5Y, 5/3) LIGHT OLIVE BROWN CLAY, MEDIUM PLASTICITY, MOIST			CL	3.0	PID=0 ppm $\alpha=0$ ppm BT=50 cpm
NOTES:									Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: CRAIG COULTER Drilling Equipment: ACKER SENTRY
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 602.20.03.05				PROJECT NAME:			
BORING NUMBER: 11015				COORDINATES: NORTH 477922.19 EAST 1379788.82 DATE: 25-MAR-93			
GROUND ELEVATION: 578.5				GWL: Depth 4	Date/Time 25-Mar-93 14:15		DATE STARTED: 25-MAR-93
ENGINEER/GEOLOGIST: MIKE WORLEY				Depth	Date/Time		DATE COMPLETE: 25-MAR-93
DRILLING METHOD: AUGER							
D E P T H	S A M P L E	D A T E E E N O N	B L O W S P L E R E V E R Y	S U B S C P R E C O V O R E I N C H E S	S Y M B S O L	T S F	REMARKS
13.0	110461 03/25/93 15:45	36	6	SAA	CL	3.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
13.5	110462 03/25/93 16:00	16	6	VERY DENSE, (2.5Y, N5/) GRAY SILT, TRACE FINE SAND, NON-PLASTIC, MOIST	SM	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
14.0	110463 03/25/93 16:00	27	6	VERY DENSE, (2.5Y, N5/) GRAY SILTY FINE SAND, MOIST	SM	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
14.5	110464 03/25/93 16:00	38	6	VERY DENSE, (2.5Y, N5/) GRAY SILT, TRACE FINE SAND, MOIST	SM	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
<p>NOTES:</p> <p>Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: CRAIG COULTER Drilling Equipment: ACKER SENTRY</p> <p>SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable</p>							

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F-18-89

Boring Contractor: PENNSYLVANIA DRILLING
Driller: KEVIN MYERS, GEORGE BULLITT
Drilling Equipment: ACKER SOIL SENTRY
SAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11016					COORDINATES: NORTH 477811.21 EAST 1379837.73 DATE: 18-APR-93					
GROUND ELEVATION: 578.2					GWL: Depth Date/Time DATE STARTED: 18-APR-93					
ENGINEER/GEOLOGIST: J REAGAN					Depth Date/Time DATE COMPLETE: 18-APR-93					
DRILLING METHOD: HOLLOW STEM										
D E P T H	S A D M P L E	D T M E E	B L O W S P L E	T R E C O V E R Y	R E C O V E R Y	I N C H E S	S U S M C B S O L	T S F	REMARKS	
6.0 6.5	112823 04/18/93 11:00	3		6	MEDIUM DENSE, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY VERY FINE SAND, LOW PLASTICITY, MOIST			ML	N/A	PID=0 ppm BI=40 cpm
6.5 7.0	112824 04/18/93 11:00	14		6	VERY STIFF, (2.5Y, 5/6) LIGHT OLIVE BROWN, (2.5Y, 6/1) GRAY MOTTLES, SILTY CLAY, LOW PLASTICITY, MOIST			CL	3	PID=0 ppm BI=40 cpm
7.0 7.5	112825 04/18/93 11:00	12		4	MEDIUM DENSE, (2.5Y, 5/6) LIGHT OLIVE BROWN, (2.5Y, 6/1) GRAY MOTTLES, SILTY VERY FINE SAND, LOW PLASTICITY, VERY MOIST			ML	N/A	PID=0 ppm BI=40 cpm
7.5 8.0	112826 04/18/93 11:10	5		6	MEDIUM DENSE, (2.5Y, 5/6) LIGHT OLIVE BROWN, (2.5Y, 6/1) GRAY MOTTLES, SILTY VERY FINE SAND, LOW PLASTICITY, WET			ML	N/A	PID=0 ppm BI=60 cpm
8.0 8.5	112827 04/18/93 11:10	7		6	SAA			ML	N/A	PID=0 ppm BI=60 cpm
8.5 9.0	112828 04/18/93 11:10	13		6	VERY STIFF, (2.5Y, 5/6) LIGHT OLIVE BROWN, (2.5Y, 6/1) GRAY MOTTLES, SILTY CLAY, SLIGHTLY PLASTICITY, MOIST			CL	3	PID=0 ppm BI=60 cpm
9.0 9.5	112830 04/18/93 13:40	18		6	STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, (2.5Y, 5/1) GRAY MOTTLES, SILTY CLAY, SLIGHTLY PLASTIC, MOIST			CL	2	PID=0 ppm BI=60 cpm
9.5 10.0	112831 04/18/93 13:40	20		6	SAA			CL	2.5	PID=0 ppm BI=60 cpm
10.0 10.5	112832 04/18/93 13:40	23		6	VERY STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, (2.5Y, 5/1) GRAY AND (2.5Y, 5/6) LIGHT OLIVE BROWN MOTTLES, SILTY CLAY, SLIGHTLY PLASTIC, MOIST			CL	3	PID=0 ppm BI=60 cpm
NOTES:										Boring Contractor: PENNSYLVANIA DRILLING Driller: KEVIN MYERS, GEORGE BULLITT Drilling Equipment: ACKER SOIL SENTRY
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11017					COORDINATES: NORTH 477542.65 EAST 1379578.97 DATE: 01-APR-93				
GROUND ELEVATION: 575.7					GWL: Depth Date/Time			DATE STARTED: 01-APR-93	
ENGINEER/GEOLOGIST: D O'BRIEN					Depth Date/Time			DATE COMPLETE: 01-APR-93	
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E E	B L O W S E	R A C O L E	I N C H E R	S Y S M C B S O L	T S F	REMARKS	
.5	110488 04/01/93 09:45	3	6	VERY STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, GRAVELLY CLAY, LOW PLASTICITY, MOIST			CL	3.5	PID=0 ppm BT=100 cpm
.5 1.0	04/01/93 00:00	6	0	NO RECOVERY			N/A	N/A	
1.0 1.5	04/01/93 00:00	13	0	NO RECOVERY			N/A	N/A	
1.5 2.0	110489 04/01/93 09:50	13	6	HARD, (2.5Y, 5/4) LIGHT OLIVE BROWN, GRAVELLY CLAY, NO PLASTICITY, DRY			CL	4.5	PID=0 ppm BT=80 cpm
2.0 2.5	110490 04/01/93 09:50	24	4	SAA, VERY STIFF			CL	2.5	PID=0 ppm BT=80 cpm
2.5 3.0	04/01/93 00:00	24	0	NO RECOVERY			N/A	N/A	
3.0 3.5	110491 04/01/93 10:10	20	6	HARD, (2.5Y, 5/6) LIGHT OLIVE BROWN, GRAVELLY CLAY, NO PLASTICITY, DRY			CL	4	PID=0 ppm BT=80 cpm
3.5 4.0	110492 04/01/93 10:10	30	4	SAA			CL	4	PID=0 ppm BT=80 cpm
4.0 4.5	04/01/93 00:00	31	0	NO RECOVERY			N/A	N/A	
4.5 5.0	110493 04/01/93 10:40	4	6	VERY STIFF, (2.5Y, 5/6) LIGHT OLIVE BROWN, GRAVELLY CLAY SOME ORGANICS, NO PLASTICITY, DRY			CL	2.5	PID=0 ppm BT=80 cpm
5.0 5.5	110494 04/01/93 10:40	6	3	SAA			CL	2.75	PID=0 ppm BT=80 cpm
5.5 6.0	04/01/93 00:00	12	0	NO RECOVERY			N/A	N/A	
6.0 6.5	110495 04/01/93 10:55	12	6	VERY STIFF, (2.5Y, 6/8) OLIVE YELLOW, GRAVELLY CLAY W/ORGANICS, NO PLASTICITY, DRY			CL	3	PID=0 ppm BT=80 cpm
NOTES:									
Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: KEVIN MYERS, DONNY ARTHUR Drilling Equipment: ACKER SENTRY									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable,									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11017					COORDINATES: NORTH 477542.65 EAST 1379578.97 DATE: 01-APR-93				
GROUND ELEVATION: 575.7					GWL: Depth	Date/Time	DATE STARTED: 01-APR-93		
ENGINEER/GEOLOGIST: D O'BRIEN					Depth	Date/Time	DATE COMPLETE: 01-APR-93		
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E E	B L O W S E N O N	S A M P L E R E C O V E R Y	I N C H E S		S U S M C B S O L	T S F	REMARKS
6.5	110496 04/01/93 10:55	32	6	SAA			CL	3.5	PID=0 ppm BT=80 cpm
7.0	110497 04/01/93 10:55	45	6	SAA, HARD			CL	-4	PID=0 ppm BT=80 cpm
7.5	110498 04/01/93 11:10	9	6	SAA			CL	4	PID=0 ppm BT=80 cpm
8.0	110499 04/01/93 11:10	12	6	SAA			CL	4	PID=0 ppm BT=80 cpm
8.5	04/01/93 11:10	19	0	NO RECOVERY			N/A	N/A	
9.0	110500 04/01/93 13:15	6	6	VERY STIFF, (2.5Y, 6/8) OLIVE YELLOW, MOTTLES WITH GRAY, SILTY, CLAY, NO PLASTICITY, DRY			CL	3.25	PID=0 ppm BT=60 cpm
9.5	110501 04/01/93 13:15	12	5	SAA			CL	2.5	PID=0 ppm BT=60 cpm
10.0	04/01/93 00:00	34	0	NO RECOVERY			N/A	N/A	
10.5	110502 04/01/93 13:30	14	6	VERY STIFF, (2.5Y, 6/8) OLIVE YELLOW, SILTY CLAY, NO PLASTICITY, DRY			CL	2.5	PID=0 ppm BT=60 cpm
11.0	110503 04/01/93 13:30	21	6	SAA			CL	2.75	PID=0 ppm BT=60 cpm
11.5	110504 04/01/93 13:30	32	6	VERY DENSE, (2.5Y, 6/8) OLIVE YELLOW, CLAYEY SILT, SLIGHTLY MOIST			ML	N/A	PID=0 ppm BT=60 cpm
12.0	110505 04/01/93 13:50	15	6	DENSE, (2.5Y, 6/8) OLIVE YELLOW, SILT, WET			ML	N/A	PID=0 ppm BT=40 cpm
12.5	04/01/93 00:00	18	0	NO RECOVERY			N/A	N/A	

NOTES:

Boring Contractor: PENNSYLVANIA DRILLING CO.
 Driller: KEVIN MYERS, DONNY ARTHUR
 Drilling Equipment: ACKER SENTRY

SAA = Same as Above
 PID = Photoionization Detector
 N/A = Not Applicable,

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11017					COORDINATES: NORTH 477542.65 EAST 1379578.97				
GROUND ELEVATION: 575.7					GWL: Depth		Date/Time		DATE STARTED: 01-APR-93
ENGINEER/GEOLOGIST: D O'BRIEN					Depth		Date/Time		DATE COMPLETE: 01-APR-93
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A M P L E	T I M E	B L O W S A M P L E O N	R E C O V R Y	I N C H E R Y	S Y U S M C B S O L	T S F	REMARKS
13.0				24	0	NO RECOVERY	N/A	N/A	
13.5	04/01/93 00:00								
13.5	110506 04/01/93 14:10	12			6	MEDIUM DENSE, (2.5Y, 6/8) OLIVE YELLOW, SILT, WET	ML	N/A	PID=0 ppm BT=40 cpm
14.0									
14.0	110507 04/01/93 14:10	8			4	SAA	ML	N/A	PID=0 ppm BT=40 cpm
14.5									
14.5	04/01/93 00:00	18			0	NO RECOVERY	N/A	N/A	
15.0									
15.0	110508 04/01/93 14:20	23			6	DENSE, (2.5Y, 6/8) OLIVE YELLOW, SILT, MOIST	ML	N/A	PID=0 ppm BT=40 cpm
15.5									
15.5	110509 04/01/93 14:20	24			5	VERY STIFF, (2.5Y, 5/1) GRAY, GRAVELLY CLAY, NO PLASTICITY, DRY	CL	3.5	PID=0 ppm BT=40 cpm
16.0									
16.0	04/01/93 00:00	25			0	NO RECOVERY	N/A	N/A	
16.5									
16.5	110510 04/01/93 15:15	13			5	HARD, (2.5Y, 5/1) GRAY, GRAVELLY CLAY, NO PLASTICITY, DRY	CL	4	PID=0 ppm BT=60 cpm
17.0									
17.0	04/01/93 00:00	24			0	NO RECOVERY	N/A	N/A	
17.5									
17.5	04/01/93 00:00	35			0	NO RECOVERY	N/A	N/A	
18.0									
NOTES:									
Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: KEVIN MYERS, DONNY ARTHUR Drilling Equipment: ACKER SENTRY									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11018					COORDINATES: NORTH 477180.49 EAST 1379571.13			DATE: 16-APR-93	
GROUND ELEVATION: 544.4					GWL: Depth	Date/Time		DATE STARTED: 16-APR-93	
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 17-APR-93	
DRILLING METHOD: AUGER									
D E P T H	S A M P L E	D A T E E E	B L O W S A M P L E O N	S A M P L E R E C O V E R Y	I N C H E S		S U S M C B S O L	T S F	REMARKS
.5	112595 04/16/93 10:15	2	6	MEDIUM DENSE, (10YR, 2/1) BLACK, SILTY, VERY FINE SAND, LOW PLASTICITY, WET			ML	N/A	PID=1 ppm BT=50 cpm
.5 1.0	112596 04/16/93 10:15	7	6	MEDIUM DENSE, (2.5Y, 4/4) OLIVE BROWN, SILTY VERY FINE SAND, WET, LOW PLASTICITY			ML	N/A	PID=1 ppm BT=50 cpm
1.0 1.5	112597 04/16/93 10:15	10	6	STIFF (2.5Y, 4/4) OLIVE BROWN, SILTY CLAY, WET, SLIGHTLY PLASTIC, GRAVELS			CL	2	PID=1 ppm BT=50 cpm
1.5 2.0	112598 04/16/93 10:25	7	6	SAA			CL	2	PID=1 ppm BT=50 cpm
2.0 2.5	112599 04/16/93 10:25	12	4	SAA			CL	2	PID=1 ppm BT=50 cpm
2.5 3.0	04/16/93 00:00	24	0	NO RECOVERY			N/A	N/A	
3.0 3.5	112600 04/16/93 13:45	2	6	STIFF, (2.5Y, 4/4) OLIVE BROWN, SILTY CLAY, WET, SLIGHTLY PLASTIC			CL	2	PID=1 ppm BT=45 cpm
3.5 4.0	112601 04/16/93 13:45	11	6	LOOSE, (10YR, 6/3) PALE BROWN, SILTY GRAVEL, DRY, CEMENTED			GM	N/A	PID=1 ppm BT=45 cpm
4.0 4.5	112602 04/16/93 13:45	10	2	LOOSE, (10YR, 4/4) DARK YELLOWISH BROWN, MOIST, POORLY GRADED SAND			N/A	N/A	PID=1 ppm BT=45 cpm
4.5 5.0	112603 04/16/93 14:10	1	6	SAA			SP	N/A	PID=1 ppm BT=55 cpm
5.0 5.5	112604 04/16/93 14:10	10	6	SAA			SP	N/A	PID=1 ppm BT=55 cpm
5.5 6.0	04/16/93 00:00	17	0	NO RECOVERY			N/A	N/A	PID=1 ppm BT=55 cpm
6.0 6.5	112605 04/16/93 14:30	22	6	DENSE, SAA			SP	N/A	PID=1 ppm BT=50 cpm
NOTES:									
Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: CME-45									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION								
BORING NUMBER: 11018					COORDINATES: NORTH 477180.49 EAST 1379571.13			DATE: 16-APR-93					
GROUND ELEVATION: 544.4					GWL: Depth	Date/Time		DATE STARTED: 16-APR-93					
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 17-APR-93					
DRILLING METHOD: AUGER													
D E P T H	S A M P L E	D T I M E	B L O W S P E E N O N	S A M P L E R E C O V E R Y	I N C H E S E		S Y U S M C B S O L	T S F	REMARKS				
6.5 7.0	112606 04/16/93 14:30	26	6	DENSE, SAA			SP	N/A	PID=1 ppm BT=50 cpm				
7.0 7.5	112607 04/16/93 14:30	31	4	DENSE, (10YR, 4/4) DARK YELLOWISH BROWN, GRAVELLY SAND, MOIST			SP	N/A	PID=1 ppm BT=50 cpm				
7.5 8.0	112608 04/16/93 14:45	17	6	MEDIUM DENSE, (10YR, 4/4) DARK YELLOW BROWN, POORLY GRADED SAND MOIST			SP	N/A	PID=1 ppm BT=45 cpm				
8.0 8.5	112609 04/16/93 14:45	24	6	MEDIUM DENSE, (10YR, 5/3) BROWN, POORLY GRADED SAND, MOIST			SP	N/A	PID=1 ppm BT=45 cpm				
8.5 9.0	04/16/93 00:00	32	0	NO RECOVERY			N/A	N/A	PID=1 ppm BT=45 cpm				
9.0 9.5	112610 04/16/93 15:00	7	6	LOOSE, (10YR, 4/4) DARK YELLOWISH BROWN, POORLY GRADED SAND, MOIST			SP	N/A	PID=1 ppm BT=40 cpm				
9.5 10.0	112611 04/16/93 15:00	22	6	MEDIUM DENSE, (10YR 4/4) DARK YELLOWISH BROWN, POORLY GRADED SAND, MOIST			SP	N/A	PID=1 ppm BT=40 cpm				
10.0 10.5	112612 04/16/93 15:00	35	2	DENSE, (10YR, 4/4) DARK YELLOWISH BROWN, POORLY GRADED SAND, MOIST			SP	N/A	PID=1 ppm BT=40 cpm				
10.5 11.0	112613 04/16/93 15:30	25	6	DENSES, (10YR, 4/4) DARK YELLOWISH BROWN, POORLY GRADED SAND, MOIST			SP	N/A	PID=1 ppm BT=50 cpm				
11.0 11.5	112614 04/16/93 15:30	32	6	DENSE, (10YR, 4/4) DARK YELLOWISH BROWN, POORLY GRADED SAND, MOIST			SP	N/A	PID=1 ppm BT=50 cpm				
11.5 12.0	112615 04/16/93 15:30	57	6	VERY DENSE, (10YR, 4/4) DARK YELLOWISH BROWN, POORLY GRADED SAND, MOIST			SP	N/A	PID=1 ppm BT=50 cpm				
12.0 12.5	112616 04/17/93 09:30	8	6	VERY DENSE, (10YR, 4/4) DARK YELLOWISH BROWN, POORLY GRADED SAND, W/GRAVEL, MOIST			SP	N/A	PID=1.2 ppm BT=45 cpm				
12.5 13.0	112617 04/17/93 09:30	21	6	SAA			SP	N/A	PID=1.2 ppm BT=45 cpm				
NOTES:										Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: CME-45			
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable			

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11018					COORDINATES: NORTH 477180.49 EAST 1379571.13			DATE: 16-APR-93		
GROUND ELEVATION: 544.4					GWL: Depth	Date/Time		DATE STARTED: 16-APR-93		
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 17-APR-93		
DRILLING METHOD: AUGER										
D E P T H	S A M P L E	D A T E E E	B L O W N E	S A M P L E R Y	R E C O V E R Y	I N C H E S	S Y S M C B S O L	T S F	REMARKS	
13.0	112618 04/17/93 09:30	35		4	SAA			N/A	N/A	PID=1.2 ppm BT=45 cpm
13.5	112619 04/17/93 09:45	20		6	VERY DENSE, (10YR, 4/6) DARK YELLOWISH BROWN, POORLY GRADED SAND WITH GRAVEL, MOIST			SP	N/A	PID=1 ppm BT=50 cpm
14.0	112620 04/17/93 09:45	28		6	SAA			SP	N/A	PID=1 ppm BT=50 cpm
14.5	112621 04/17/93 09:45	30		6	SAA			SP	N/A	PID=1 ppm BT=50 cpm
15.0	112622 04/17/93 10:00	12		6	VERY DENSE, (10YR, 4/6) DARK YELLOWISH BROWN, POORLY GRADED SAND W/GRAVEL, TRACE SILT, MOIST			SP	N/A	PID=1.5 ppm BT=25 cpm
15.5	112623 04/17/93 10:00	47		6	SAA			SP	N/A	PID=1.5 ppm BT=25 cpm
16.0	112624 04/17/93 10:00	28		4	SAA			SP	N/A	PID=1.5 ppm BT=25 cpm
16.5	112625 04/17/93 10:10	22		6	VERY DENSE, (10YR, 4/6) DARK YELLOWISH BROWN, POORLY GRADED GRAVEL WITH SAND, MOIST			GP	N/A	PID=1.2 ppm BT=50 cpm
17.0	112626 04/17/93 10:10	38		6	SAA			GP	N/A	PID=1.2 ppm BT=50 cpm
17.5	112627 04/17/93 10:10	51		3	SAA			GP	N/A	PID=1.2 ppm BT=50 cpm
18.0	112628 04/17/93 10:25	8		6	MEDIUM DENSE, (10YR, 4/6) DARK YELLOWISH BROWN, POORLY GRADED WITH GRAVEL, MOIST			SP	N/A	PID=1.3 ppm BT=40 cpm
18.5	112629 04/17/93 10:25	11		6	SAA			SP	N/A	PID=1.3 ppm BT=40 cpm
19.0	04/17/93 00:00	15		0	NO RECOVERY			N/A	N/A	PID=1.3 ppm BT=40 cpm
NOTES:										
Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: CME-45 SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION											
BORING NUMBER: 11018				COORDINATES: NORTH 477180.49 EAST 1379571.13				DATE: 16-APR-93							
GROUND ELEVATION: 544.4				GWL: Depth Date/Time				DATE STARTED: 16-APR-93							
ENGINEER/GEOLOGIST: J BOYER				Depth Date/Time				DATE COMPLETE: 17-APR-93							
DRILLING METHOD: AUGER															
D E P T H	S A M P L E	D A T E E E	B L O W S O N	S A M P L E	R E C O V E R Y	I N C H E E S		S Y U S M C B S O L	T S F	REMARKS					
19.5 20.0	112630 04/17/93 10:40	9 6			DENSE, (10YR, 4/6) DARK YELLOWISH BROWN, POORLY GRADED SAND WITH GRAVEL, WET				SP	N/A	PID=2.7 ppm BT=50 cpm				
20.0 20.5	112631 04/17/93 10:40	18 6			SAA				SP	N/A	PID=2.7 ppm BT=50 cpm				
20.5 21.0	04/17/93 00:00	18 0			NO RECOVERY				N/A	N/A	PID=2.7 ppm BT=50 cpm				
21.0 24.0	112634 04/17/93 14:50	N/A N/A			HYDROPUNCH DESTRUCTIVE DRILLING				N/A	N/A					
24.0 24.5	112635 04/17/93 15:00	8 6			MEDIUM DENSE, (10YR, 4/4) DARK YELLOWISH BROWN, POORLY GRADED SAND WET				SP	N/A	PID=.9 ppm BT=50 cpm				
24.5 25.0	112636 04/17/93 15:00	13 6			SAA				SP	N/A	PID=.9 ppm BT=50 cpm				
25.0 25.5	04/17/93 00:00	17 0			NO RECOVERY				N/A	N/A					
NOTES:															
Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: CME-45															
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable															

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11019					COORDINATES: NORTH 477180.84 EAST 1379641.57			DATE: 11-MAY-93		
GROUND ELEVATION: 544.69					GWL: Depth	Date/Time		DATE STARTED: 11-MAY-93		
ENGINEER/GEOLOGIST: J REAGAN					Depth	Date/Time		DATE COMPLETE: 11-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A D M P L E	D T A I T E E	B L O W S O N	S A M P P L E R	R E C O V P L E Y	I N C H E R Y	S U S C B S O L	T S F	REMARKS	
20.0	05/11/93 15:00	N/A	N/A	AUGER 1'-20'				N/A	N/A	
20.0 20.5	113047 05/11/93 15:00	8	6	DENSE (10YR, 4/3) BROWN POORLY GRADED SAND, LOW PLASTICITY, WET				SP	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm
20.5 21.0	113048 05/11/93 15:00	15	6	SAA				SP	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm
21.0 21.5	113049 05/11/93 15:00	19	6	SAA				SP	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm
NOTES:										
Boring Contractor: PENNSYLVANIA DRILLING Driller: M WATRAL, B DEILEY Drilling Equipment: ACKER SOIL SENTRY										
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11020				COORDINATES: NORTH 477062.34 EAST 1379593.53			DATE: 11-MAY-93		
GROUND ELEVATION: 537				GWL: Depth Date/Time			DATE STARTED: 11-MAY-93		
ENGINEER/GEOLOGIST: J REAGAN				Depth Date/Time			DATE COMPLETE: 11-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E N	B L O W S P L E O N	R E C O V R E E H E S	I N C O H E S	S Y U S M C B S O L	T S F	REMARKS	
1.0	05/11/93 00:00	N/A	N/A	(10YR, 3/3), SILTY FINE SAND, LOW PLASTICITY, DRY			ML	N/A	
1.0 20.0	05/11/93 00:00	N/A	N/A	(10YR, 4/3) BROWN, POORLY GRADED SAND, LOW PLASTICITY, MOIST			SP	N/A	
20.0 20.5	113042 113043 113045 113044 05/11/93 09:30	12	6	DENSE, (10YR 4/3) BROWN, POORLY GRADED SAND, LOW PLASTICITY, WET			SP	N/A	PID=0 ppm α =0 ppm $\beta\Gamma$ =60 cpm
20.5 21.0	113042 113043 113045 113044 05/11/93 09:30	17	6	SAA			SP	N/A	PID=0 ppm α =0 ppm $\beta\Gamma$ =60 cpm
21.0 21.5	113042 113043 113045 113044 05/11/93 09:30	17	6	SAA			SP	N/A	PID=0 ppm α =0 ppm $\beta\Gamma$ =60 cpm
21.5 22.0	113042 113043 113045 113044 05/11/93 09:30	28	6	SAA			SP	N/A	PID=0 ppm α =0 ppm $\beta\Gamma$ =60 cpm
22.0 23.0	113046 05/11/93 10:30	N/A	N/A	HYDROPUNCH FROM 22-23FT. PULLED BACK 4 FT. SAMPLE 19-23FT. WATER LEVEL 17.08FT			N/A	N/A	
NOTES:									Boring Contractor: PENNSYLVANIA Driller: M WATRAL, B DEILEY Drilling Equipment: ACKER SOIL SENTRY SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11021					COORDINATES: NORTH 477130.70 EAST 1379554.85			DATE: 12-MAY-93		
GROUND ELEVATION: 540.1					GWL: Depth 16.79 Date/Time			DATE STARTED: 12-MAY-93		
ENGINEER/GEOLOGIST: J REAGAN					Depth	Date/Time		DATE COMPLETE: 13-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER										
D E E P T H	S A M P L E	D A T E E E	B I M S O N	T I M E E R Y	L O W M P L E	R E C O V R E Y	I N C H E S	S U S C B S O L	T S F	REMARKS
20.0	05/12/93 13:20	N/A	N/A		AUGERED 0-20.0FT. SEE BORING LOG FOR 11018. 0-20 FT. (10YR, 4/3) BROWN POORLY GRADED SAND			N/A	N/A	
20.0	113051 05/12/93 13:20	18	6		VERY DENSE, (10YR, 4/3) BROWN, POORLY GRADED SAND, LOW PLASTICITY, WET			SP	N/A	PID=0 ppm $\alpha=0$ ppm BT=60 cpm
20.5	113052 05/12/93 13:20	27	6		VERY DENSE, (10YR, 4/3) BROWN, POORLY GRADED SAND, LOW PLASTICITY, WET			SP	N/A	PID=0 ppm $\alpha=0$ ppm BT=60 cpm
21.0	113053 05/12/93 13:20	34	6		VERY DENSE, (10YR, 4/3) BROWN, POORLY GRADED SAND, LOW PLASTICITY, WET			SP	N/A	PID=0 ppm $\alpha=0$ ppm BT=60 cpm
21.5	113054 05/12/93 13:20	N/A	N/A		HYDROPUCK SAMPLE DRIVEN TO 25 FT. PULL BACK TO 21 FT.			N/A	N/A	
NOTES:										
Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: M WATRAL, B DILLEY Drilling Equipment: ACKER SOIL SENTRY										
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11022					COORDINATES: NORTH 477143.19 EAST 1379427.61 DATE: 13-MAY-93					
GROUND ELEVATION: 539.6					GWL: Depth Date/Time			DATE STARTED: 13-MAY-93		
ENGINEER/GEOLOGIST: J REAGAN					Depth Date/Time			DATE COMPLETE: 13-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E E	B L O W S A M P L E	R E C O V E R Y	I N C H E R Y		S U Y S M C B S O L	T S F	REMARKS	
20.0	05/13/93 14:35	N/A	N/A	AUGERED 1-20FT (10YR, 4/3) SAND				N/A	N/A	
20.0 20.5	113055 05/13/93 14:35	12	6	DENSE (10YR, 4/3) POORLY GRADED SAND, LOW PLASTICITY, WET				SP	N/A	PID=.9 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm
20.5 21.0	113056 05/13/93 14:35	13	6	SAA				N/A SP	N/A	PID=.9 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm
21.0 21.5	113057 05/13/93 14:35	24	6	SAA				N/A SP	N/A	PID=.9 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm
21.5 25.0	113058 05/13/93 15:05	N/A	N/A	HYDROPUNCH SAMPLE FROM 21'-25'				N/A	N/A	
NOTES: BACKGROUND: HNU=.9PPM/BETA GAMMA=60CPM										Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: M WATRAL, B DEILEY Drilling Equipment: ACKER SOIL SENTRY SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION							
BORING NUMBER: 11023					COORDINATES: NORTH 477145.50 EAST 1379283.43			DATE: 14-MAY-93				
GROUND ELEVATION: 536.5					GWL: Depth 16.08 Date/Time 14-Apr-93 10:20			DATE STARTED: 14-MAY-93				
ENGINEER/GEOLOGIST: J REAGAN					Depth	Date/Time		DATE COMPLETE: 14-MAY-93				
DRILLING METHOD: HOLLOW STEM AUGER												
D E P T H	S A M P L E	D A T E E E	B L O W S A M P L E R E V E Y	R E C O M P L E N C H E S				S U S M C B S O L	T S F	REMARKS		
20.0		05/14/93 00:00	N/A	N/A	AUGERED 0-20'. 0-10' (10YR, 2/1) VERY FINE SAND. 10-20' (10YR, 4/3) POORLY GRADED SAND WITH MANY GRAVELS.				N/A	N/A		
20.0 20.5	113059 05/14/93 09:45	7	6		DENSE (10YR, 4/3), POORLY GRADED SAND, LOW PLASTICITY, WET				SP	N/A	PID=0 ppm $\alpha=0$ ppm BT=60 cpm	
20.5 21.0	113060 05/14/93 09:45	13	6		SAA				SP	N/A	PID=0 ppm $\alpha=0$ ppm BT=60 cpm	
21.0 21.5	113061 05/14/93 09:45	17	4		SAA				SP	N/A	PID=0 ppm $\alpha=0$ ppm BT=60 cpm	
21.5 25.0	113062 05/14/93 10:20	N/A	N/A		HYDROPUNCH SAMPLE FROM 21-25'. BOTTOM OF BORING AT 25'.				N/A	N/A		
NOTES:										Boring Contractor: PENNSYLVANIA Driller: M WATRAL, B DEILEY Drilling Equipment: ACKER SOIL SENTRY SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable		

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 11024					COORDINATES: NORTH 477871.82 EAST 1379924.37			DATE: 15-MAY-93			
GROUND ELEVATION: 577.6					GWL: Depth 8.82 Date/Time 15-May-93 13:00			DATE STARTED: 15-MAY-93			
ENGINEER/GEOLOGIST: J REAGAN					Depth		Date/Time	DATE COMPLETE: 15-MAY-93			
DRILLING METHOD: HOLLOW STEM AUGER											
D E P T H	S A M P L E	D A T E E	T B L O W S O N	R I C O V E R Y				S U Y S M C B S O L	T S F	REMARKS	
3.5	05/15/93 10:30	N/A	N/A	AUGERED TO 3.5'				N/A	N/A		
3.5 5.0	113063 05/15/93 10:35	5 8		VERY STIFF, (10YR, 4/4) DARK YELLOWISH BROWN, SILTY FINE SAND, LOW PLASTICITY, MOIST				ML	2	PID=1.2 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm	
5.0 6.5	113064 05/15/93 10:40	7 12		VERY STIFF, (10YR, 4/4)(10YR, 6/1) MOTTLES, SILTY CLAY, MEDIUM PLASTICITY, MOIST				CL	2.5	PID=1.6 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm	
6.5 8.0	113065 05/15/93 10:45	13 18		STIFF, (10YR, 4/4)(10YR, 6/1) MOTTLES, SILTY FINE SAND, LOW PLASTICITY, VERY MOIST				ML	1.5	PID=1.3 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm	
8.0 9.5	103066 05/15/93 11:00	7 9		STIFF, (10YR, 4/4), SILTY CLAY, LOW PLASTICITY, WET				CL	1.5	PID=1.8 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm	
9.5 10.5	113067 05/15/93 13:10	N/A	N/A	HYDROPUNCH SAMPLE FROM 6.5-10.5'				N/A	N/A		
NOTES:										Boring Contractor: PENNSYLVANE DRILLING Driller: M WATRAL B SIBERT Drilling Equipment: ACKLER SOIL SENTRY SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 11025					COORDINATES: NORTH 478008.01 EAST 1379771.86			DATE: 15-MAY-93			
GROUND ELEVATION: 577					GWL: Depth	Date/Time	DATE STARTED: 15-MAY-93				
ENGINEER/GEOLOGIST: J REAGAN					Depth	Date/Time	DATE COMPLETE: 15-MAY-93				
DRILLING METHOD: HOLLOW STEM AUGER											
DEPTH	S A M P T E	D M I E E	T M E E	B L O S L	R S M O P	E C O V E	I N C H R	S U S C B S O L	T S F	REMARKS	
3.5	05/15/93 15:05	N/A	N/A	AUGERED TO 3.5'				N/A	N/A		
3.5 4.0	113068 05/15/93 15:05	4	6	STIFF (10YR, 5/6) SILTY FINE SAND			ML	1.5	PID=.5 ppm $\alpha=0$ ppm $\delta\Gamma=50$ cpm		
4.0 4.5	113068 05/15/93 15:05	6	6	LOW PLASTICITY, VERY MOIST			N/A ML	N/A 1.5	PID=.5 ppm $\alpha=0$ ppm $\delta\Gamma=50$ cpm		
4.5 5.0	113068 05/15/93 15:05	7	6	SAA			N/A ML	N/A 1.5	PID=.5 ppm $\alpha=0$ ppm $\delta\Gamma=50$ cpm		
5.0 5.5	113069 05/15/93 15:10	4	6	STIFF (10YR, 5/6), (10YR, 5/1) MOTTLES			CL	2	PID=.5 ppm $\alpha=0$ ppm $\delta\Gamma=50$ cpm		
5.5 6.0	113069 05/15/93 15:10	6	6	SILTY CLAY, MEDIUM PLASTICITY, MOIST			CL	2	PID=.5 ppm $\alpha=0$ ppm $\delta\Gamma=50$ cpm		
6.0 6.5	113069 05/15/93 15:10	9	6	SAA			CL	2	PID=.5 ppm $\alpha=0$ ppm $\delta\Gamma=50$ cpm		
6.5 7.0	113070 05/15/93 15:15	7	6	STIFF (10YR, 4/3) SILTY, FINE SAND, LOW PLASTICITY, WET			ML	1	PID=.5 ppm $\alpha=0$ ppm $\delta\Gamma=50$ cpm		
7.0 7.5	113070 05/15/93 15:15	15	6	SAA			ML	1	PID=.5 ppm $\alpha=0$ ppm $\delta\Gamma=50$ cpm		
7.5 8.0	113070 05/15/93 15:15	26	6	STIFF (10YR, 4/3) SILTY FINE SAND, LOW PLASTICITY, WET			ML	1	PID=.5 ppm $\alpha=0$ ppm $\delta\Gamma=50$ cpm		
8.0 10.5	113071 05/15/93 15:50	N/A	N/A	HYDROPUNCH FROM 6.5-10.5			N/A	N/A			
NOTES:										Boring Contractor: PENNSYLVANIA DRILLING Driller: M WATRAL Drilling Equipment: ACKER SOIL SENTRY	
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable											

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11026					COORDINATES: NORTH 478072.97 EAST 1379305.03			DATE: 14-MAY-93		
GROUND ELEVATION: 574.2					GWL: Depth Date/Time			DATE STARTED: 14-MAY-93		
ENGINEER/GEOLOGIST: J BOYER					Depth Date/Time			DATE COMPLETE: 15-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER										
DEPTH	SAMPLE	BLOWS	RECOVERY	TIME				SYMBOL	TYPICAL SOIL	REMARKS
5.0	05/14/93 16:20	N/A	N/A		DESTRUCTIVE DRILLING			N/A	N/A	
5.0 6.5	113142 05/14/93 16:20	12 17	17		DENSE, (2.5Y, 5/6) LIGHT OLIVE BROWN, CLAYEY SILT, MOIST, NO PLASTICITY, TRACE DOLOMITE (CONCRETE)			ML	N/A	PID=0 ppm BI=60 cpm
6.5 8.0	113143 05/14/93 16:30	13 17 32	16		HARD, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY, SLIGHT PLASTICITY, SLIGHTLY MOIST			CL	4	PID=0 ppm BI=60 cpm
8.0 9.5	05/15/93 00:00	13 12 11	16		VERY STIFF, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY, SLIGHT PLASTICITY, SLIGHTLY MOIST			CL	4	PID=0 ppm BI=60 cpm
11.0 12.5	113144 05/04/93 09:15	10 9 10	18		MEDIUM DENSE (2.5Y, 5/2) GRAYISH BROWN, SILT, WITH FINE SAND, WET			ML	N/A	PID=0 ppm BI=20 cpm
12.5 14.5	113145 05/14/93 13:00	N/A	N/A		HYDROPUNCH			N/A	N/A	
NOTES:										Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: ACKER
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION								
BORING NUMBER: 11027					COORDINATES: NORTH 477826.93 EAST 1379322.17								
GROUND ELEVATION: 571.9					GWL: Depth	Date/Time		DATE STARTED: 11-MAY-93					
ENGINEER/GEOLOGIST: D O'BRIEN					Depth	Date/Time		DATE COMPLETE: 13-MAY-93					
DRILLING METHOD:													
D E P T H	S A M P L E	D A T E E E	B L O W S O N	T I M E E E	R E C O V E R Y	S I N C H E S	U Y S M C B S O L	T S F	REMARKS				
.5	113092 05/11/93 09:35	9		4	VERY STIFF, (2.5Y, 5/6) OLIVE YELLOW, GRAVELLY CLAY, NO PLASTICITY, DRY			CL	3.5	PID=0 ppm BT=60 cpm			
.5 1.0	05/11/93 00:00	11		0	NO RECOVERY			N/A	N/A				
1.0 1.5	05/11/93 00:00	15		0	NO RECOVERY			N/A	N/A				
1.5 2.0	113093 05/11/93 09:40	15		6	VERY STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY WITH GRAVEL, NO PLASTICITY, DRY			CL	2	PID=0 ppm BT=60 cpm			
2.0 2.5	05/11/93 00:00	16		3	SAA			CL	2	PID=0 ppm BT=60 cpm			
2.5 3.0	05/11/93 09:40	18		0	NO RECOVERY			N/A	N/A				
3.0 3.5	05/11/93 09:45	12		0	NO RECOVERY			N/A	N/A				
3.5 4.0	05/11/93 09:45	13		0	NO RECOVERY			N/A	N/A				
4.0 4.5	05/11/93 09:45	12		0	NO RECOVERY			N/A	N/A				
4.5 5.0	113094 05/11/93 10:05	4		6	STIFF (2.5Y, 5/4) LIGHT OLIVE BROWN, SANDY CLAY WITH GRAVEL, LOW PLASTICITY, MOIST			CL	1	PID=0 ppm BT=60 cpm			
5.0 5.5	113094 05/11/93 10:05	4		6	SAA			CL	1	PID=0 ppm BT=60 cpm			
5.5 6.0	113094 05/11/93 10:05	6		0	NO RECOVERY			N/A	N/A				
6.0 6.5	113095 05/11/93 10:20	2		5	VERY STIFF (2.5Y, 5/6) LIGHT OLIVE BROWN, CLAY, TRACE GRAVEL, LOW PLASTICITY, MOIST			CL	3.25	PID=0 ppm BT=60 cpm			
NOTES:													
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable													

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PROJECT NO.: 20.03.05				PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION						
BORING NUMBER:				COORDINATES: NORTH 477826.93 EAST 1379322.17				DATE: 11-MAY-93		
GROUND ELEV.: 71.9				GWL: Depth Date/Time				DATE STARTED: 11-MAY-93		
ENGINEER/GEOL.: D. O'BRIEN				Depth Date/Time				DATE COMPLETE: 13-MAY-93		
DRILLING METHOD:										
DEPTH F	S A M P L E	D E T I M E	B L O W S O N	S A M P L E R Y	S A M P L E I N C H E S	SY S M C B S O L	T S F	REMARKS		
6.5	113095 05/11/93 10:20		2	0	NO RECOVERY			N/A	N/A	
7.0	113095 05/11/93 10:20		4	0	NO RECOVERY			N/A	N/A	
7.5	113096 05/11/93 10:30		1	3	STIFF (2.5Y, 5/4) LIGHT OLIVE BROWN, CLAY, TRACE GRAVEL, NO PLASTICITY, SLIGHTLY MOIST			CL	1	PID=0 ppm BT=60 cpm
8.0	113096 05/11/93 10:30		1	0	NO RECOVERY			N/A	N/A	
8.5	113096 05/11/93 10:30		1	0	NO RECOVERY			N/A	N/A	
9.0	113096 05/11/93 10:40		6	LOOSE (2.5Y, 6/6) OLIVE YELLOW SILT AND SAND MIXTURE, FINE TO MEDIUM GRAINED, WET				SM	N/A	PID=0 ppm BT=60 cpm
9.5	113097 05/11/93 10:40		3	4	SAA			SM	N/A	PID=0 ppm BT=60 cpm
10.0	113097 05/11/93 10:40		3	0	NO RECOVERY			N/A	N/A	
10.5	113097 05/11/93 13:10		5	STIFF (2.5Y, 5/6) LIGHT OLIVE BROWN, CLAY MIXED WITH SILT AND SAND, COARSE GRAIN, NO PLASTICITY, WET				CL	1	PID=0 ppm BT=60 cpm
11.0	113098 05/11/93 13:10		5	0	NO RECOVERY			N/A	N/A	
11.5	113098 05/11/93 13:10		5	0	NO RECOVERY			N/A	N/A	
12.0	113099 05/11/93 13:20		5	6	VERY STIFF (2.5Y, 6/6) OLIVE YELLOW, SILTY CLAY WITH GRAVEL, NO PLASTICITY, WET			CL	2	PID=0 ppm BT=60 cpm
12.5	113099 05/11/93 13:20		8	4	MEDIUM DENSE (2.5Y) SILT WITH GRAVEL, WET			N/A ML	N/A	PID=0 ppm BT=60 cpm
NOTES:										
<p style="text-align: right;">SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable</p>										

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 11027				COORDINATES: NORTH 477826.93 EAST 1379322.17						
GROUND ELEVATION: 571.9				GWL: Depth	Date/Time		DATE STARTED: 11-MAY-93			
ENGINEER/GEOLOGIST: D O'BRIEN				Depth	Date/Time		DATE COMPLETE: 13-MAY-93			
DRILLING METHOD:										
D E P T H	S A M P L E	D A T E E E	B L O W S O N	S A M P L E R E C O V E R Y	I N C H E S		S U S M C B S O L	T S F	REMARKS	
13.0	113099 05/11/93 13:20	14	0	NO RECOVERY					N/A	N/A
13.5	113100 05/12/93 08:30	1	3	SOFT (2.5Y, 6/6) OLIVE YELLOW CLAY, NO PLASTICITY, WET					CL	.5
14.0	113100 05/12/93 08:30	1	0	NO RECOVERY					N/A	N/A
14.5	113100 05/12/93 08:30	2	0	NO RECOVERY					N/A	N/A
15.0	113101 05/12/93 08:40	3	4	SOFT (2.5Y, 5/1) GRAY, SILTY CLAY WITH GRAVEL, LOW PLASTICITY, WET					CL	.25
15.5	113101 05/12/93 08:40	3	0	NO RECOVERY					N/A	N/A
16.0	113101 05/12/93 08:40	4	0	NO RECOVERY					N/A	N/A
16.5	113102 05/12/93 09:05	16	6	VERY STIFF (2.5Y, 5/1) GRAY, GRAVELLY CLAY, NO PLASTICITY, DRY					CL	3
17.0	113102 05/12/93 09:05	23	5	SAA					CL	3
17.5	113102 05/12/93 09:05	50	0	NO RECOVERY					N/A	N/A
NOTES:									SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11028				COORDINATES: NORTH 477345.79 EAST 1379472.40			DATE: 20-MAY-93		
GROUND ELEVATION: 570.1				GWL: Depth		Date/Time		DATE STARTED: 20-MAY-93	
ENGINEER/GEOLOGIST: D O'BRIEN				Depth		Date/Time		DATE COMPLETE: 26-MAY-93	
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E E	T M S E O N	B I L L O R E Y	S C O P R E V E R H E S	I N C H E R Y S	U S C S O L	Y M B O L	REMARKS
28.0	05/20/93 00:00	N/A	N/A	FOR SOIL DESCRIPTIONS SEE BORING LOG FOR 1965				N/A	N/A
28.0 55.0	05/20/93 00:00	N/A	N/A	TYPICAL AQUIFER SANDS				N/A	N/A
NOTES: Boring Contractor: PENNSYLVANIA DRILL Driller: JEFF BENTLEY, MIKE LEON Drilling Equipment: ACKER SENTRY SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11029					COORDINATES: NORTH 477242.15 EAST 1379479.67			DATE: 06-MAY-93		
GROUND ELEVATION: 560					GWL: Depth 42.8 Date/Time 06-May-93 15:50			DATE STARTED: 06-MAY-93		
ENGINEER/GEOLOGIST: D O'BRIEN					Depth		Date/Time	DATE COMPLETE: 07-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E E E	T I M E S P E E N	B L O W S P O E Y	R E C O V E R Y	I N C H E S	S U S C B S O L	T S F	REMARKS	
40.0	05/06/93 15:45	N/A	N/A	NO SAMPLING REQUIRED FROM 0-40 FT				N/A	N/A	
40.0 41.5	113006 05/06/93 15:45	10 13 8	18	MEDIUM DENSE (2.5Y, 5/6) LIGHT OLIVE BROWN, MEDIUM TO COARSE SAND POORLY GRADED, WET				SP	N/A	PID=0 ppm BI=60 cpm
NOTES:										
Boring Contractor: PENNSYLVANIA DRILLING Driller: CRAIG CAITTER, BILL SIBERT Drilling Equipment: ACKER										
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER: 20 BY 05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1105					COORDINATES: NORTH 477509.39 EAST 1379495.81 DATE: 28-MAY-93					
GROUND ELEVATION: 574					GWL: Depth	Date/Time		DATE STARTED: 28-MAY-93		
ENGINEER/GEOLOGIST: J REAGAN/T LAYN					Depth	Date/Time		DATE COMPLETE: 03-JUN-93		
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E E E N	T I M E S P L E O	B L O W S P L E R	R A C O V E E Y	I N C H E E S	S Y S M C B S O L	T S F	REMARKS	
15.0		06/01/93 10:00	N/A	N/A	DRILLING TO WATER TABLE HARD DRILLING AT 12'-13.5' AND 14'-15' *CHANGED TO LARGER DRILLING RIG CONTINUED DRILLING			N/A	N/A	
50.0		06/01/93 11:00	6	15	(2.5Y, 5/3) LIGHT OLIVE BROWN CLAY MOIST			CL	3.2	
51.3		06/01/93 11:00	N/A 12 24 42	9	(2.5Y, 5/3) OLIVE BROWN SAND SLIGHTLY MOIST			SP	N/A	
52.0		06/01/93 14:00	34 32 27 50	24	(2.5Y, 4/3) OLIVE BROWN, LOOSE SAND, MEDIUM-COARSE GRAIN, WELL GRADED, WET			SP	N/A	
60.0		116361 116362 06/01/93 14:30	N/A	N/A	HYDROPUNCH (HYDISCARBON MODE) TOOK FULL URANIUM WATER SAMPLES			N/A	N/A	
NOTES:										
<p style="text-align: center;">Boring Contractor: PENNSYLVANIA DRILLING Driller: JOE RAAB, ROGER DAVIS, HELPER Drilling Equipment: ACKER SOIL SENTRY</p> <p style="text-align: center;">SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable</p>										

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11031					COORDINATES: NORTH 477278.12 EAST 1380175.03				
GROUND ELEVATION: 573.8					GWL: Depth	Date/Time		DATE STARTED: 07-JUN-93	
ENGINEER/GEOLOGIST: A COMO					Depth	Date/Time		DATE COMPLETE: 07-JUN-93	
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D T I M E E	B L O W S O N	S A M P L E R E C O V E R Y	R E I N C H E S		S U Y S M B S O L	T S F	REMARKS
.5	116920 116921 06/07/93 10:10	6		6	VERY STIFF, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, ORGANIC MATERIAL, DRY		CL	2.5	PID=.7 ppm BT=40-80 cpm
.5 1.0	116920 116921 06/07/93 10:10	6		6	SAA		CL	2.5	PID=.7 ppm BT=40-80 cpm
1.0 1.5	06/07/93 10:10	6		0	NO RECOVERY		N/A	N/A	PID=.7 ppm BT=40-80 cpm
1.5 2.0	116922 116923 06/07/93 10:15	4		6	VERY STIFF, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, DRY		CL	3.5	PID=.7 ppm BT=40-80 cpm
2.0 2.5	116922 116933 06/07/93 10:15	8		6	SAA		CL	3.5	PID=.7 ppm BT=40-80 cpm
2.5 3.0	06/07/93 10:15	8		0	NO RECOVERY		N/A	N/A	PID=.7 ppm BT=40-80 cpm
3.0 3.5	116924 116953 116925 06/07/93 10:30	17		6	SAA		CL	3.5	PID=.7 ppm BT=40-80 cpm
3.5 4.0	116924 116925 116953 06/07/93 10:30	18		6	DENSE, (2.5Y 6/6) OLIVE YELLOW CLAYEY SILT, THIN (5Y, 7/1) LIGHT GRAY SILT LENSES, NO PLASTICITY, DRY		ML	N/A	PID=.7 ppm BT=40-80 cpm
4.0 4.5	116924 116925 116953 06/07/93 10:30	21		2	SAA		ML	N/A	PID=.7 ppm BT=40-80 cpm
4.5 5.0	116926 116928 116927 06/07/93 10:50	14		6	SAA		ML	N/A	PID=.7 ppm BT=40-80 cpm
NOTES: DRILLED/SAMPLED TO 19.5 FT. NO WATER WAS ENCOUNTERED. BACKGROUND: MT = .7 PPM BETA/GAMMA = 40 - 80 CPM									
Boring Contractor: PENNSYLVANIA DRILLING CO Driller: MIKE BENTLEY									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11031					COORDINATES: NORTH 477278.12 EAST 1380175.03			DATE: 07-JUN-93	
GROUND ELEVATION: 573.8					GWL: Depth	Date/Time		DATE STARTED: 07-JUN-93	
ENGINEER/GEOLOGIST: A COMO					Depth	Date/Time		DATE COMPLETE: 07-JUN-93	
DRILLING METHOD: HOLLOW STEM AUGER									
DEPTH	SAMPLE	DATE	BLOW	SAMPLE	RECOVERY	SYNTHETIC	TEST	SOIL	REMARKS
5.0	116926 116927 116928 06/07/93 10:50	20		6	SAA		ML	N/A	PID=.7 ppm BT=40-80 cpm
5.5	116926 116927 116928 06/07/93 10:50	28		6	SAA		ML	N/A	PID=.7 ppm BT=40-80 cpm
6.0	116929 116931 116930 06/07/93 11:00	10		6	SAA		ML	N/A	PID=.7 ppm BT=40-80 cpm
6.5	116929 116931 116930 06/07/93 11:00	10		6	SAA		ML	N/A	PID=.7 ppm BT=40-80 cpm
7.0	116929 116930 116931 06/07/93 11:00	19		6	SAA		ML	N/A	PID=.7 ppm BT=40-80 cpm
7.5	116932 116933 116934 06/07/93 11:10	4		6	SAA		ML	N/A	PID=.7 ppm BT=40-80 cpm
8.0	116932 116934 116933 06/07/93 11:10	10		6	SAA		ML	N/A	PID=.7 ppm BT=40-80 cpm
8.5	116932 116933 116934 06/07/93 11:10	14		6	SAA		ML	N/A	PID=.7 ppm BT=40-80 cpm
9.0	116935 116936 116937 06/07/93 13:05	4		6	DENSE, (2.5Y 5/6) LIGHT OLIVE BROWN, CLAYEY SILT, DRY, THIN (5Y, 7/1) LIGHT GRAY CLAYEY SILT, LENSES		ML	N/A	PID=.7 ppm BT=40-80 cpm
9.5									
NOTES: DRILLED/SAMPLED TO 19.5 FT. NO WATER WAS ENCOUNTERED. BACKGROUND: MT = .7 PPM BETA/GAMMA = 40 - 80 CPM					Boring Contractor: PENNSYLVANIA DRILLING CO Driller: MIKE BENTLEY				
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 11031					COORDINATES: NORTH 477278.12 EAST 1380175.03			DATE: 07-JUN-93			
GROUND ELEVATION: 573.8					GWL: Depth	Date/Time	DATE STARTED: 07-JUN-93				
ENGINEER/GEOLOGIST: A COMO					Depth	Date/Time	DATE COMPLETE: 07-JUN-93				
DRILLING METHOD: HOLLOW STEM AUGER											
D E P T H	S A D T M A I P T M L E E S E N O	D T M A I P T M L E E S P L E R Y	B L O A M O W M P L E R E V E R Y	R E C C O O V O R E V E R Y	I N C H E S H E R Y	S Y S M C B S O L	T S F	REMARKS			
9.5	116935 116936 116937 06/07/93 13:05	16	6	SAA			ML	N/A	PID=0.7 ppm BT=40-80 cpm		
10.0	116935 116936 116937 06/07/93 13:05	15	6	DENSE, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILT, DRY			ML	N/A	PID=.7 ppm BT=40-80 cpm		
10.5	116938 116939 116940 06/07/93 13:15	6	6	SAA			ML	N/A	PID=.7 ppm BT=40-80 cpm		
11.0	116938 116939 116940 06/07/93 13:15	8	6	SAA			ML	N/A	PID=0.7 ppm BT=40-80 cpm		
11.5	116938 116940 116939 06/07/93 13:15	9	6	MEDIUM DENSE, (2.5Y 5/6) LIGHT OLIVE BROWN AND (10YR, 3/2) VERY DARK GRAYISH BROWN, CLAYEY SILT, DRY			ML	N/A	PID=0.7 ppm BT=40-80 cpm		
12.0	116941 116942 116943 06/07/93 13:25	4	6	SAA			ML	N/A	PID=0.7 ppm BT=40-80 cpm		
12.5	116941 116943 116942 06/07/93 13:25	8	6	MEDIUM DENSE, (2.5Y 6/4) LIGHT YELLOWISH BROWN, SILT, DRY			ML	N/A	PID=0.7 ppm BT=40-80 cpm		
13.0	116941 116942 116943 06/07/93 13:25	10	6	SAA			ML	N/A	PID=0.7 ppm BT=40-80 cpm		
13.5	116944 116946 116945 06/07/93 13:35	4	6	MEDIUM DENSE, (2.5Y 6/4) LIGHT YELLOWISH BROWN, CLAYEY SILT, DRY			ML	N/A	PID=0.7 ppm BT=40-80 cpm		
NOTES: DRILLED/SAMPLED TO 19.5 FT. NO WATER WAS ENCOUNTERED. BACKGROUND: MT = .7 PPM BETA/GAMMA = 40 - 80 CPM					Boring Contractor: PENNSYLVANIA DRILLING CO Driller: MIKE BENTLEY						
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable											

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PROJECT NUMBER: 100-05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 100					COORDINATES: NORTH 477278.12 EAST 1380175.03				
GROUND ELEVATION: 579.3					GUL: Depth	Date/Time		DATE STARTED: 07-JUN-93	
ENGINEER/GEOLOGIST: A CONO					Depth	Date/Time		DATE COMPLETE: 07-JUN-93	
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A I C E E	B S A M P L E O N	R E C O V E R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS
14.0	116944 116945 116946 06/07/93 13:35	9	6	SAA			ML	N/A	PID=0.7 ppm BIR=40-80 cpm
14.5	116944 116945 116946 06/07/93 13:35	11	6	HARD, (5Y, 5/1) GRAY AND (2.5Y, 5/3) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, FEW SMALL GRAVEL, IRON STAINING, DRY			CL	4.5	PID=0.7 ppm BIR=40-80 cpm
15.0	116947 116948 116949 06/07/93 13:45	8	6	SAA			CL	4.0	PID=0.7 ppm BIR=40-80 cpm
15.5	116947 116948 116949 06/07/93 13:45	10	6	HARD, (5Y, 5/1) GRAY, SILTY CLAY WITH SOME (5Y, 5/2) OLIVE GRAY, SILTY CLAY, LOW PLASTICITY, SMALL GRAVEL, IRON STAINING, DRY			CL	4.5	PID=0.7 ppm BIR=4.5 cpm
16.0	116947 116948 116949 06/07/93 13:45	13	6	SAA			CL	4.5	PID=0.7 ppm BIR=40-80 cpm
16.5	116950 116951 116952 06/07/93 13:55	9	6	VERY STIFF, (5Y, 5/2) OLIVE GRAY, SILTY CLAY WITH SOME (5Y, 2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, FEW VERY SMALL GRAVEL, DRY			CL	2.0	PID=0.7 ppm BIR=40-80 cpm
17.0	116950 116951 116952 06/07/93 13:55	17	6	SAA			CL	2.0	PID=0.7 ppm BIR=40-80 cpm
17.5	116950 116951 116952 06/07/93 13:55	17	6	HARD, (5Y, 5/1) GRAY AND (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, GRAVEL, DRY			CL	4.5	PID=0.7 ppm BIR=40-80 cpm
18.0	116954 116955 116956 06/07/93 14:10	8	6	HARD, (5Y, 5/1) GRAY AND (5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, SMALL PIECES OF GRAVEL, DRY			CL	4.0	PID=0.7 ppm BIR=40-80 cpm
NOTES: DRILLED/SAMPLED TO 19.5 FT. NO WATER WAS ENCOUNTERED. BACKGROUND: MI = .7 PPM BETA/GAMMA = 40 - 80 CPM					Boring Contractor: PENNSYLVANIA DRILLING CO Driller: MIKE BENTLEY				
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11031					COORDINATES: NORTH 477278.12 EAST 1380175.03			DATE: 07-JUN-93		
GROUND ELEVATION: 573.8					GWL: Depth	Date/Time		DATE STARTED: 07-JUN-93		
ENGINEER/GEOLOGIST: A COMO					Depth	Date/Time		DATE COMPLETE: 07-JUN-93		
DRILLING METHOD: HOLLOW STEM AUGER										
DEPTH	S A D T M P E	A M I T E E	B L O W S L E	R S A M P L E	I N C O V E R		S Y S M C B S O L	T S F	REMARKS	
18.5	116954 116955 116956 06/07/93 14:10	11	6	SAA				CL	4.0	PID=0.7 ppm BI=40-80 cpm
19.0	116954 116955 116956 06/07/93 14:10	24	6	SAA				CL	4.0	PID=0.7 ppm BI=40-80 cpm
19.5	06/07/93 00:00	N/A	N/A	BOTTOM OF BORING 19.5 FEET				N/A	N/A	
NOTES: DRILLED/SAMPLED TO 19.5 FT. NO WATER WAS ENCOUNTERED. BACKGROUND: MT = .7 PPM BETA/GAMMA = 40 - 80 CPM										Boring Contractor: PENNSYLVANIA DRILLING CO Driller: MIKE BENTLEY SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

40011009

F-18-117

001195

02/02/94 17:03

PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11032			COORDINATES: NORTH 478072.47 EAST 1379787.13			DATE: 25-JUN-93			
GROUND ELEVATION: 577.07			GWL: Depth Date/Time			DATE STARTED: 25-JUN-93			
ENGINEER/GEOLOGIST: B E MULLER			Depth Date/Time			DATE COMPLETE: 25-JUN-93			
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E E	B L O W S O N	S A M M E R Y	R E C O V E R Y	I N C H E S	S U S M C B S O L	T S F	REMARKS
.5	113818 06/23/93 14:20	4	6		VERY STIFF (2.5Y, 4/2) DARK GRAYISH BROWN, SILTY CLAY, LOW PLASTICITY, MOIST		CL	3	PID=0 ppm BT=40 cpm
.5 1.0	113819 06/23/93 14:20	4	6		VERY STIFF (2.5Y, 5/3) LIGHT OLIVE BROWN, SILTY CLAY, MEDIUM PLASTICITY, MOIST		CL	2.75	PID=0 ppm BT=40 cpm
1.0 1.5	06/23/93 14:20	5	0		NO RECOVERY		N/A	N/A	
1.5 2.0	113820 06/23/93 14:32	4	6		STIFF (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, TRACE GRAY AND BLACK MOTTLES, MEDIUM PLASTICITY, MOIST		CL	1.5	PID=0 ppm BT=60 cpm
2.0 2.5	113821 06/23/93 14:32	5	6		STIFF (2.5Y, 3/6) LIGHT OLIVE BROWN, SAA		CL	1.75	PID=0 ppm BT=60 cpm
2.5 3.0	06/23/93 14:32	8	0		NO RECOVERY		N/A	N/A	
3.0 3.5	113822 06/23/93 14:43	5	6		SAA		CL	2.5	PID=0 ppm BT=50 cpm
3.5 4.0	113823 06/23/93 14:43	7	6		SAA		CL	1.5	PID=0 ppm BT=50 cpm
4.0 4.5	113824 06/23/93 14:43	9	3		SOFT (2.5Y, 5/6) LIGHT OLIVE BROWN, SANDY, SILTY CLAY, MEDIUM PLASTICITY, VERY MOIST		CL	.25	PID=0 ppm BT=50 cpm
4.5 5.0	113825 06/23/93 14:50	4	6		SAA, MEDIUM STIFF, TRACE YELLOW MOTTLES, MOIST		CL	.75	PID=0 ppm BT=70 cpm
5.0 5.5	113826 06/23/93 14:50	6	6		SAA, STIFF		CL	1.5	PID=0 ppm BT=70 cpm
5.5 6.0	113827 06/23/93 14:50	4	3		MEDIUM STIFF, SAA		CL	.75	PID=0 ppm BT=70 cpm
6.0 6.5	113828 06/23/93 15:04	5	6		SAA		CL	.75	PID=0 ppm BT=70 cpm

NOTES:

Boring Contractor: PENNSYLVANIA DRILLING CO.
Driller: RON CONNERS

SAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION											
BORING NUMBER: 11032					COORDINATES: NORTH 478072.47 EAST 1379787.13											
GROUND ELEVATION: 577.07					GWL: Depth	Date/Time	DATE STARTED: 25-JUN-93									
ENGINEER/GEOLOGIST: B E MULLER					Depth	Date/Time	DATE COMPLETE: 25-JUN-93									
DRILLING METHOD: HOLLOW STEM AUGER																
D E P T H	S A M P L E	D T M E E	B L O W S L E N	S A M P L E R Y	R E C O V E R Y	I N C H E S	S Y S M C B S O L	T S F	REMARKS							
6.5 7.0	113829 06/23/93 15:04	10	6	SAA, VERY STIFF INCREASE SILT					CL	3	PID=0 ppm BI=70 cpm					
7.0 7.5	113830 06/23/93 15:04	12	6	SAA, STIFF LAST 2 INCHES: (2.5Y, 6/4) OLIVE YELLOW, SILTY SAND, WET					CL	1.75	PID=0 ppm BI=70 cpm					
7.5 8.0	113831 06/23/93 15:13	5	6	STIFF (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY, MEDIUM PLASTICITY, MOIST, 2 IN FINE WET SAND					CL	1.25	PID=0 ppm BI=60 cpm					
8.0 8.5	113832 06/23/93 15:13	5	6	SAA					CL	2	PID=0 ppm BI=60 cpm					
8.5 9.0	113833 06/23/93 15:13	5	6	MEDIUM DENSE (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY SAND, WET					SM	N/A	PID=0 ppm BI=60 cpm					
9.0 9.5	113834 06/24/93 08:45	4	6	0-3 IN SAA/3-6 IN SOFT (2.5Y, 5/6) LIGHT OLIVE BROWN, SANDY, SILTY CLAY, LOW PLASTICITY, MOIST					SM CL	.25	PID=0 ppm BI=50 cpm					
9.5 10.0	113835 06/24/93 08:45	5	6	STIFF, SAA					CL	1.25	PID=0 ppm BI=50 cpm					
10.0 10.5	113836 06/24/93 08:45	9	6	STIFF, SAA, LOW MOIST					CL	1.50	PID=0 ppm BI=50 cpm					
10.5 11.0	113837 06/24/93 08:59	4	6	MEDIUM, DENSE (2.5Y, 5/4) LIGHT OLIVE BROWN, CLAYEY, SANDY SILT WET					ML	N/A	PID=0 ppm BI=80 cpm					
11.0 11.5	113838 06/24/93 08:59	10	6	STIFF (2.5Y, 5/4) LIGHT OLIVE BROWN, SANDY, SILTY CLAY, MEDIUM PLASTICITY, MOIST					CL	1	PID=0 ppm BI=80 cpm					
11.5 12.0	113839 06/24/93 08:59	11	6	MEDIUM DENSE (2.5Y, 5/2) GRAYISH BROWN, CLAYEY SILTY SAND, LOW PLASTICITY, VERY MOIST					SM	1.25	PID=0 ppm BI=80 cpm					
12.0 12.5	113840 06/24/93 09:10	4	6	SAA					SM	N/A	PID=0 ppm BI=120 cpm					
12.5 13.0	113841 06/24/93 09:10	12	6	STIFF (2.5Y, 5/2) GRAYISH BROWN CLAY, MEDIUM PLASTICITY, MOIST-1IN WET SAND AT BOTTOM					CL	1.5	PID=0 ppm BI=120 cpm					
NOTES:										Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: RON CONNERS						
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable						

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11032					COORDINATES: NORTH 478072.47 EAST 1379787.13					
GROUND ELEVATION: 577.07					GWL: Depth Date/Time					
ENGINEER/GEOLOGIST: G E MULLER					Depth Date/Time					
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E E E	B L O W S P L E N	T I M E R Y	R E C O V E R Y	I N C H E S	S Y S M C B S O L	T S F	REMARKS	
13.0		06/24/93 09:20	11	0	NO RECOVERY			N/A	N/A	
13.5		113842 06/24/93 09:20	6		VERY STIFF (5Y, 4/3) OLIVE, SILTY CLAY, TRACE FINE SAND, LOW PLASTICITY, VERY MOIST			CL	.25	PID=.5 ppm BT=50 cpm
14.0		113843 06/24/93 09:20	10	6	SAA			CL	.25	PID=.5 ppm BT=50 cpm
14.5		113844 06/24/93 09:20	10	6	SAA, 0.5 IN. COARSE SAND SEAM AT 5 IN			CL	1.25	PID=.5 ppm BT=50 cpm
NOTES:										Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: RON CONNERS SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

F-18-120

001138

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11082			COORDINATES: NORTH 477930.33 EAST 1379957.13			DATE: 03-JUN-93			
GROUND ELEVATION: 576.9			GWL: Depth Date/Time			DATE STARTED: 03-JUN-93			
ENGINEER/GEOLOGIST: A COMMO			Depth Date/Time			DATE COMPLETE: 03-JUN-93			
DRILLING METHOD: HOLLOW STEM AUGER									
DEPTH	S A M P L E	D A T E E E	B L O W S O N	S A M P L E R E Y	R E C O V E R Y	I N C H E S	U S C B S O L	T S F	REMARKS
5.0	06/03/93 00:00	N/A	N/A	SEE COMMENT			N/A	N/A	
5.0	113680 113681 113682 06/03/93 08:25	4	6	VERY STIFF, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY, MOTTLING, LOW PLASTICITY, DRY, SOME (5Y, 5/1) GRAY, SILTY CLAY			CL	3.0	PID=1.1 ppm BT=80 cpm
5.5	113680 113681 113682 06/03/93 08:25	7	6	SAA			CL	3.0	PID=1.1 ppm BT=80 cpm
6.0	113680 113681 113682 06/03/93 08:25	15	3	SAA			CL	3.0	PID=1.1 ppm BT=80 cpm
6.5	113683 113684 06/03/93 08:30	6	6	MEDIUM DENSE, (2.5Y, 5/6) LIGHT OLIVE BROWN, CLAYEY SILT, MOIST			ML	N/A	PID=0.6 ppm BT=20-60 cpm
7.0	113683 113684 06/03/93 08:30	7	6	SAA			ML	N/A	PID=0.6 ppm BT=20-60 cpm
7.5	06/03/93 08:30	9	0	NO RECOVERY (INFERRED FROM BORING LOG)			N/A	N/A	
8.0	113685 113686 113687 06/03/93 08:35	4	6	MEDIUM DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, CLAYEY SILT, FEW SMALL PIECES OF GRAVEL, IRON STAINING, MOIST			ML	N/A	PID=0.6 ppm BT=20-60 cpm
8.5	113685 113686 113687 06/03/93 08:35	7	6	SAA			ML	N/A	PID=0.6 ppm BT=20-60 cpm
9.0	113685 113686 113687 06/03/93 08:35	9	6	SAA			ML	N/A	PID=0.6 ppm BT=20-60 cpm
9.5	113685 113686 113687 06/03/93 08:35								
NOTES: DRILLED SAMPLED TO 12.5. PUSHED HYDROPUNCH TO 13 FT. PULLED BACK 4 FTL AND COLLECTED TOTAL U WATER SAMPLE									
Boring Contractor: PENNSYLVANIA DRILLING CO Driller: MIKE BENTLY SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

8321-1123

F-18-121

001139

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 11082				COORDINATES: NORTH 477930.33 EAST 1379957.13			DATE: 03-JUN-93			
GROUND ELEVATION: 576.9				GWL: Depth		Date/Time	DATE STARTED: 03-JUN-93			
ENGINEER/GEOLOGIST: A COMMCO				Depth		Date/Time	DATE COMPLETE: 03-JUN-93			
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	A D T I M E	B L O W S O N	S A M P L E	R E C O V E R Y	I N C H E R Y	S Y S M C B S O L	T S F	REMARKS	
9.5 10.0	113688 113690 113689 06/03/93 08:45	10	6		VERY STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, FEW SMALL PIECES OF GRAVEL, IRON STAINING, DRY			CL	3.5	PID=1.3 ppm BT=20-60 cpm
10.0 10.5	113688 113689 113690 06/03/93 08:45	10	6		SAA			CL	3.5	PID=1.3 ppm BT=20-60 cpm
10.5 11.0	113688 113689 113690 06/03/93 08:45	14	6		SAA			CL	3.5	PID=1.3 ppm BT=20-60 cpm
11.0 11.2	113682 113691 06/03/93 08:55	7	6		SAA			CL	3.5	PID=0.6 ppm BT=20-60 cpm
11.2 11.5	113691 113692 06/03/93 08:55	5	6		MEDIUM DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY WELL GRADED FINE SAND, MOIST			SM	N/A	PID=0.6 ppm BT=20-60 cpm
11.5 12.5	113691 113692 06/03/93 08:55	9	0		VERY STIFF, (5Y, 5/1) GRAY, SILTY CLAY, MEDIUM PLASTICITY, FEW SMALL PIECES OF GRAVEL, DRY			CL	3.5	
NOTES: DRILLED SAMPLED TO 12.5. PUSHED HYDROPUNCH TO 13 FT. PULLED BACK 4 FTL AND COLLECTED TOTAL U WATER SAMPLE					Boring Contractor: PENNSYLVANIA DRILLING CO Driller: MIKE BENTLY					
SAA = Same as Above PID = Photoionization Detect N/A = Not Applicable										

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11083					COORDINATES: NORTH 477837.97 EAST 1379981.71				
GROUND ELEVATION: 576.2					GWL: Depth	Date/Time	DATE STARTED: 02-JUN-93		
ENGINEER/GEOLOGIST: A COMO					Depth	Date/Time	DATE COMPLETE: 02-JUN-93		
DRILLING METHOD: 4 1/4" HOLLOW STEM AUGER									
D E P T H	S A M P L E	D T M E E	B L O W S L O N	S A M P L E R Y	R E C O V E R Y	I N C H E S	U Y S M C B S O L	T S F	REMARKS
5.0	06/02/93 00:00	N/A	N/A	SEE COMMENT			N/A	N/A	
5.0 5.5	113666 06/02/93 08:55	2	6	VERY STIFF, (2.5Y, 5/5) OLIVE YELLOW, SILTY CLAY, SOME (2.5Y, 5/0) GRAY, CLAY, LOW PLASTICITY, FEW PIECES OF SMALL GRAVEL, DRY			CL	2.5	PID=0.3 ppm BT=20-60 cpm
5.5 6.0	113666 06/02/93 08:55	4	0	NO RECOVERY (INFERRRED FROM BORING LOG)			N/A	N/A	
6.0 6.5	113666 06/02/93 08:55	5	0	NO RECOVERY			N/A	N/A	
6.5 7.0	113667 113668 113669 06/02/93 09:05	7	6	SAA, SOME THIN WELL GRADED SAND LENSES, DRY			CL	3.5	PID=0.0 ppm BT=20-60 cpm
7.0 7.5	113667 113668 113669 06/02/93 09:05	12	6	SAA			CL	3.5	PID=0.0 ppm BT=20-60 cpm
7.5 8.0	113667 113668 113669 06/02/93 09:05	14	6	MEDIUM DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, CLAYEY SILT NO PLASTICITY, MOIST			ML	N/A	PID=0.0 ppm BT=20-60 cpm
8.0 8.5	113670 113671 113672 06/02/93 09:10	8	6	MEDIUM DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, CLAYEY SILT, SLIGHT PLASTICITY, FEW SMALL PIECES OF GRAVEL, MOIST			ML	N/A	PID=0.0 ppm BT=20-60 cpm
8.5 9.0	113670 113671 113672 06/02/93 09:10	7	6	SAA			ML	N/A	PID=0.0 ppm BT=20-60 cpm
9.0 9.5	113670 113671 113672 06/02/93 09:10	8	6	SAA			ML	N/A	PID=0.0 ppm BT=20-60 cpm
NOTES: SOIL BORING SAMPLES COLLECTED FROM 5 TO 12.5 PUSHED HYDROPUNCH TO 13					Driller: M BENTLEY, R CONNORS SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable				

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11083					COORDINATES: NORTH 477837.97 EAST 1379981.71					
GROUND ELEVATION: 576.2					SoIL: Depth	Date/Time		DATE STARTED: 02-JUN-93		
ENGINEER/GEOLOGIST: A COMO					Depth	Date/Time		DATE COMPLETE: 02-JUN-93		
DRILLING METHOD: 4 ¹ / ₄ " HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E	B L O W S U N O N	T I M E	R E C O M P L E R Y	I N C H E E S	S Y U S M C B S O L	T S F	REMARKS	
9.5	113673 113674 113675 06/02/93 09:15	5	6			SAA	ML	N/A		PID=0.0 ppm BT=20-60 cpm
10.0	113673 113674 113675 06/02/93 09:15	9	6			VERY STIFF, (5Y, 5/3) OLIVE WITH SOME (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY, SLIGHT PLASTICITY, DRY, FEW PIECES OF SMALL GRAVEL	CL	4.0		PID=0.0 ppm BT=20-60 cpm
10.5	113673 113674 113675 06/02/93 09:15	12	6			SAA	CL	4.0		PID=0.0 ppm BT=20-60 cpm
11.0	113676 113677 113678 06/02/93 09:25	9	6			VERY STIFF, (5Y, 5/1) GRAY, SILTY CLAY, FEW PIECES OF GRAVEL, LOW PLASTICITY, DRY	CL	4.0		PID=0.0 ppm BT=20-60 cpm
11.5	113676 113677 113678 06/02/93 09:25	10	6			SAA	CL	4.0		PID=0.0 ppm BT=20-60 cpm
12.0	113676 113677 113678 06/02/93 09:25	13	6			SAA	CL	4.0		PID=0.0 ppm BT=20-60 cpm
NOTES: SOIL BORING SAMPLES COLLECTED FROM 5 TO 12.5 PUSHED HYDROPUCH TO 13										Driller: M BENTLEY, R CONNORS
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

001202

F-18-124

02/02/94 17:03

PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION									
BORING NUMBER: 11084					COORDINATES: NORTH 477808.02 EAST 1379901.44 DATE:01-JUN-93									
GROUND ELEVATION: 577.1					GWL: Depth Date/Time									
ENGINEER/GEOLOGIST: A COMO					Depth Date/Time									
DRILLING METHOD: 4 1/4" HOLLOW STEM AUGER														
D E P T H	S A M P L E	D A T E E E N O N	B L O W S P L E O N	R E C O V E R Y	I N C H E S	U S Y M B S O L	T S F	REMARKS						
5.0	06/01/93 00:00	N/A	N/A	SEE COMMENT					N/A N/A					
5.0 5.5	113272 113273 113274 06/01/93 11:10	4	6	STIFF, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, DRY					CL 1.0 PID=0.0 ppm BT=20-60 cpm					
5.5 6.0	113272 113273 113274 06/01/93 11:10	7	6	VERY STIFF, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY, SOME (5Y, 6/1) GRAY, SILTY CLAY, NO PLASTICITY, DRY					CL 4.0 PID=0.0 ppm BT=20-60 cpm					
6.0 6.5	113272 113273 113274 06/01/93 11:10	9	6	SAA					CL 4.0 PID=0.0 ppm BT=20-60 cpm					
6.5 7.0	113275 06/01/93 11:20	4	6	VERY STIFF, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY WITH SOME (5Y, 6/1) GRAY, SILTY CLAY, SOME (5Y, 8/2), WHITE, SILTY CLAY, SLIGHT PLASTICITY, DRY					CL 4.0 PID=0.0 ppm BT=20-60 cpm					
7.0 7.5	113275 113276 06/01/93 11:20	5	6	SAA					CL 4.0 PID=0.0 ppm BT=20-60 cpm					
7.5 8.0	06/01/93 11:20	7	0	NO RECOVERY					N/A N/A					
8.0 8.5	113277 113278 113279 06/01/93 11:25	3	6	STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, (SOME THIN WET VERY FINE SAND LENSES), LOW PLASTICITY, MOIST					CL 1.5 PID=0.0 ppm BT=20-60 cpm					
8.5 9.0	113277 113278 113279 06/01/93 11:25	5	6	SAA					CL 1.5 PID=0.0 ppm BT=20-60 cpm					
9.0 9.5	113277 113278 113279 06/01/93 11:25	9	6	SAA					CL 1.5 PID=0.0 ppm BT=140 cpm					
NOTES: SOIL BORING THEN PUSHED HYDROPUCK														
Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: MIKE BENTLY														
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable														

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11084					COORDINATES: NORTH 477808.02 EAST 1379901.44			DATE: 01-JUN-93		
GROUND ELEVATION: 577.1					GWL: Depth	Date/Time		DATE STARTED: 01-JUN-93		
ENGINEER/GEOLOGIST: A COMO					Depth	Date/Time		DATE COMPLETE: 01-JUN-93		
DRILLING METHOD: 4 1/4" HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A I M E E	B L O W N	S A C O R E	R E C O V E R Y	I N C H E S		S Y M C B S O L	T S F	REMARKS
9.5 10.0	113280 113281 113282 06/01/93 13:00	5		6	MEDIUM DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILT, SOME CLAY, NO PLASTICITY, WET			ML	N/A	PID=0.0 ppm BT=20-60 cpm
10.0 10.5	113280 113281 113282 06/01/93 13:00	7		6	SAA			ML	N/A	PID=0.0 ppm BT=20-60 cpm
10.5 11.0	113280 113281 113282 06/01/93 13:00	7		6	SAA			ML	N/A	PID=0.0 ppm BT=20-60 cpm
11.0 11.5	113283 113284 113285 06/01/93 13:05	6		6	SAA, AT TIP OF SPLIT SPOON SOME (5Y, 5/1) GRAY, CLAY, MEDIUM PLASTICITY, MOIST			ML	N/A	PID=0.0 ppm BT=20-60 cpm
11.5 12.0	113283 113284 113285 06/01/93 13:05	7		6	SAA, AT TIP OF SPLIT SPOON SOME (5Y, 5/1) GRAY, CLAY, MEDIUM PLASTICITY, MOIST			ML	N/A	PID=0.0 ppm BT=20-60 cpm
12.0 12.5	113283 113284 113285 06/01/93 13:05	8		6	SAA, AT TIP OF SPOON SOME (5Y, 5/1) GRAY, CLAY, MEDIUM PLASTICITY, MOIST			ML	N/A	PID=0.0 ppm BT=20-60 cpm
12.5 13.0	113286 113287 06/01/93 13:20	7		6	VERY STIFF, (5Y, 5/1) GRAY, SILTY CLAY WITH SOME (2.5Y, 5/4) LIGHT OLIVE BROWN SILT, HIGH PLASTICITY, MOIST			CL	2.25	PID=0.0 ppm BT=20-60 cpm
13.0 13.5	113286 113287 06/01/93 13:20	6		6	VERY STIFF, (5Y, 5/1) GRAY, SILTY CLAY, SOME WELL GRADED SAND, MEDIUM PLASTICITY, DRY			CL	2.25	PID=0.0 ppm BT=20-60 cpm
13.5 14.0	06/01/93 13:20	7		0				N/A	N/A	
NOTES: SOIL BORING THEN PUSHED HYDROPUUNCH					Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: MIKE BENTLY					
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11085					COORDINATES: NORTH 477869.01 EAST 1379926.48			DATE: 28-MAY-93	
GROUND ELEVATION: 577.6					GWL: Depth	Date/Time		DATE STARTED: 28-MAY-93	
ENGINEER/GEOLOGIST: A. COMO					Depth	Date/Time		DATE COMPLETE: 28-MAY-93	
DRILLING METHOD: 4 1/4 HOLLOW STEM AUGER									
D E P T H	S A D T M. P L E	B L O W S E N	R S A M P L E	E R C O V E R Y	I N C H E S		S Y S M C B S O L	T S F	REMARKS
.5	113243 113244 05/27/93 08:00	9	6		HARD, (10YR, 4/3) DARK BROWN, CLAYEY SILT, NO PLASTICITY, DRY		ML	3.0	PID=1.5 ppm BT=25-50 cpm
.5	113243 113244 05/27/93 08:00	12	6		SAA		ML	3.0	PID=1.5 ppm BT=25-50 cpm
1.0	05/27/93 08:00	20	0		NO RECOVERY (INFERRED FROM BORING LOG)		N/A	N/A	
1.5	113245 05/27/93 08:05	20	6		HARD, (5Y, 7/2) LIGHT GRAY, SILTY CLAY, NO PLASTICITY, DRY, SOME (10YR, 4/3) DARK BROWN, SILTY CLAY		CL	2.0	PID=1.5 ppm BT=25-50 cpm
2.0	05/27/93 08:05	20	0		NO RECOVERY (INFERRED FROM BORING LOG)		N/A	N/A	
2.5	05/27/93 08:05	12	0		NO RECOVERY (INFERRED FROM BORING LOG)		N/A	N/A	
3.0	113246 113247 05/27/93 08:10	4	6		HARD, (2.5Y, 5/6) LIGHT OLIVE BROWN AND (5Y, 7/2) LIGHT GRAY, SILTY CLAY, MEDIUM PLASTICITY, DRY		CL	2.5	PID=0.4 ppm BT=25-50 cpm
3.5	113246 113247 05/27/93 08:10	5	6		SAA		CL	2.5	PID=0.4 ppm BT=25-50 cpm
4.0	05/27/93 08:10	5	0		SAA		N/A	N/A	
4.5	113248 113249 113250 05/27/93 08:15	7	6		SAA, SOME GRAVEL		CL	2.5	PID=0.4 ppm BT=25-50 cpm
5.0	113248 113249 113250 05/27/93 08:15	7	6		SAA		CL	2.5	PID=0.4 ppm BT=25-50 cpm
NOTES:									
Boring Contractor: PENNSYLVANIA									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER		03.05		PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION						
BORING NUMBER		15		COORDINATES: NORTH 477869.01 EAST 1379926.48				DATE: 28-MAY-93		
GROUND ELEVATION		17.00		GWL: Depth		Date/Time		DATE STARTED: 28-MAY-93		
ENGINEER/GEOLOGIST: A. ROMO				Depth		Date/Time		DATE COMPLETE: 28-MAY-93		
DRILLING METHOD: 4 1/4 HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E E E	B L O W N E	S A M P L E	R E C O V E R Y	I N C H E S		S U S M C B S O L	T S F	REMARKS
5.5	113248 113249 113250 05/27/93 08:15	10	6	SAA				CL	2.5	PID=0.4 ppm BT=25-50 cpm
6.0	113251 113252 113253 05/27/93 08:35	6	6	HARD, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, SOME (5Y, 7/2) LIGHT GRAY, SILTY CLAY, MEDIUM PLASTICITY, DRY				CL	3.5	PID=0.4 ppm BT=25-50 cpm
6.5	113251 113252 113253 05/27/93 08:35	7	6	SAA				CL	3.5	PID=0.4 ppm BT=25-50 cpm
7.0	113251 113252 113253 05/27/93 08:35	7	6	SAA				CL	3.5	PID=0.4 ppm BT=25-50 cpm
7.5	113251 113252 113253 05/27/93 08:35	7	2	SAA				CL	3.5	PID=0.4 ppm BT=25-50 cpm
8.0	113254 113255 113256 05/27/93 08:40	16	6	HARD, (10YR, 6/2) LIGHT BROWNISH GRAY, AND (10 YR, 5/6) YELLOWISH BROWN, SILTY CLAY, DRY				CL	3.5	PID=0.4 ppm BT=25-50 cpm
8.5	113254 113255 113256 05/27/93 08:40	10	6	SAA				CL	3.5	PID=0.4 ppm BT=25-50 cpm
9.0	113254 113255 113256 05/27/93 08:40	10	6	MEDIUM DENSE, (10YR, 6/3) LIGHT BROWNISH GRAY, AND (10YR, 5/6) YELLOWISH BROWN, CLAYEY SILT, DRY				ML	N/A	PID=.4 ppm BT=25-50 cpm
9.5	113257 113258 113259 05/27/93 08:50	7	6	HARD, (2.5Y, 6/5) OLIVE YELLOW, SILTY CLAY, SLIGHT PLASTICITY, SOME (5Y, 6/1) GRAY, SILTY CLAY, DRY				CL	2.5	PID=0.4 ppm BT=25-50 cpm
10.0	113257 113258 113259 05/27/93 08:50	10	6	SAA				CL	2.5	PID=0.4 ppm BT=25-50 cpm
NOTES:										Boring Contractor: PENNSYLVANIA
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION										
BORING NUMBER: 11085					COORDINATES: NORTH 477869.01 EAST 1379926.48										
GROUND ELEVATION: 577.6					GWL: Depth	Date/Time	DATE STARTED: 28-MAY-93								
ENGINEER/GEOLOGIST: A. COMO					Depth	Date/Time	DATE COMPLETE: 28-MAY-93								
DRILLING METHOD: 4. 1/4 HOLLOW STEM AUGER															
D E P T H	S A M P L E	D T I M E E	B L O W S P L E N O	R E C O V E R Y	I N C H E S		S U S M C B S O L	T S F	REMARKS						
10.0 10.5	113257 113258 113259 05/27/93 08:50	12	6	SAA					CL	2.5	PID=0.4 ppm BT=25-50 cpm				
10.5 11.0	113260 113261 113262 05/27/93 08:55	16	6	HARD, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, MEDIUM PLASTICITY, SMALL GRAVEL, MOIST					CL	3.5	PID=0.4 ppm BT=25-50 cpm				
11.0 11.5	113260 113261 113262 05/27/93 08:55	23	6	SAA					CL	3.5	PID=0.4 ppm BT=25-50 cpm				
11.5 12.0	113260 113261 113262 05/27/93 08:55	24	6	SAA					CL	3.5	PID=0.4 ppm BT=25-50 cpm				
12.0 12.5	113263 113264 113265 05/27/93 09:20	12	6	DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILT, SOME SMALL GRAVEL, WET					ML	N/A	PID=0.4 ppm BT=25-50 cpm				
12.5 13.0	113263 113264 113265 05/27/93 09:20	15	6	DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, WELL GRADED SAND, WET					SW	N/A	PID=0.4 ppm BT=25-50 cpm				
13.0 13.5	113263 113264 113265 05/27/93 09:20	15	6	SAA					SW	N/A	PID=0.4 ppm BT=25-50 cpm				
13.5 14.0	113266 113267 113268 05/27/93 09:25	12	6	DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, WELL GRADED SAND, SOME SILTY CLAY, WET					SW	N/A	PID=0.4 ppm BT=25-50 cpm				
14.0 14.5	113266 113267 113268 05/27/93 09:25	20	6	SAA					SW	N/A	PID=0.4 ppm BT=25-50 cpm				
NOTES:										Boring Contractor: PENNSYLVANIA					
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable															

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11085					COORDINATES: NORTH 477869.01 EAST 1379926.48			DATE: 28-MAY-93		
GROUND ELEVATION: 577.6					GWL: Depth Date/Time			DATE STARTED: 28-MAY-93		
ENGINEER/GEOLOGIST: A. COMO					Depth Date/Time			DATE COMPLETE: 28-MAY-93		
DRILLING METHOD: 4 1/4 HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E E E	B L O W S P L E	S A M W O N	R E C O V E R Y	I N C H E S	S Y S M C B S O L	T S F	REMARKS	
14.5	113266 113267 113268 05/27/93 09:25		21		6	SAA		SW	N/A	PID=0.4 ppm BT=25-50 cpm
15.0	113269 113270 113271 05/27/93 09:40		10		6	FIRM, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, MEDIUM PLASTICITY, MOIST		CL	1.5	PID=0.4 ppm BT=25-50 cpm
15.5	113269 113270 113271 05/27/93 09:40		15		6	FIRM, (5Y, 5/1) GRAY, SILTY CLAY, SOME (10YR, 5/4) YELLOW BROWN, SILTY CLAY, NO PLASTICITY, SOME WELL GRADED (5Y, 5/1) GRAY, FINE SAND, DRY		CL	1.5	PID=0.4 ppm BT=25-50 cpm
16.0	113269 113270 113271 05/27/93 09:40		13		6	SAA		CL	1.5	PID=0.4 ppm BT=25-50 cpm
NOTES:										Boring Contractor: PENNSYLVANIA
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 11186			COORDINATES: NORTH 478010.24 EAST 1379587.91					DATE: 12-APR-93			
GROUND ELEVATION: 576.6			GWL: Depth		Date/Time		DATE STARTED: 12-APR-93				
ENGINEER/GEOLOGIST: J BOYER			Depth		Date/Time		DATE COMPLETE: 12-APR-93				
DRILLING METHOD: AUGER											
D E P T H	S A M P L E	D A T E E E	B L O W S O N	S A M P L E R E V E R Y	R E C O M P L E I N C H E S		S U S C B S O L	T S F	REMARKS		
.5	112500 04/12/93 10:30	6	6		DENSE, (2.5Y, 4/4) OLIVE BROWN, CLAYEY SILT, MOIST, SLIGHTLY PLASTIC		ML	N/A	PID=1 ppm BT=80 cpm		
.5 1.0	112501 04/12/93 10:30	10	6		SAA		ML	N/A	PID=1 ppm BT=80 cpm		
1.0 1.5	112502 04/12/93 10:30	25	2		DENSE, (2.5Y, 5/6) LIGHT OLIVE BROWN, CLAYEY SILT WITH GRAVEL, COBBLE SIZE TO COARSE SAND, MOIST		ML	N/A	PID=1 ppm BT=80 cpm		
1.5 2.0	112503 04/12/93 10:45	28	6		DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY GRAVEL, COBBLES TO COARSE SAND, MOIST, ODOR (METHANE) STAINED BLUE GREEN		GM	N/A	PID=5 ppm BT=80 cpm		
2.0 2.5	04/12/93 00:00	9	0		NO RECOVERY (INFERRED FROM BORING LOG)		N/A	N/A			
2.5 3.0	04/12/93 00:00	21	0		NO RECOVERY (INFERRED FROM BORING LOG)		N/A	N/A			
3.0 3.5	112504 04/12/93 10:55	10	6		MEDIUM LOOSE, (2.5Y, 4/3) OLIVE BROWN, CLAYEY SILT WITH GRAVEL, PEBBLES TO COARSE, SLIGHTLY PLASTICITY, MOIST		ML	N/A	PID=1 ppm BT=60 cpm		
3.5 4.0	112505 04/12/93 10:55	11	6		STIFF, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY, MEDIUM PLASTICITY, MOIST		CL	2.0	PID=1 ppm BT=60 cpm		
4.0 4.5	112506 04/12/93 10:55	15	6		SAA		CL	2.0	PID=1 ppm BT=60 cpm		
4.5 5.0	112507 04/12/93 14:15	5	6		MEDIUM DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY SAND WITH CLAY, LOW PLASTICITY, MOIST		SM	N/A	PID=1 ppm BT=60 cpm		
5.0 5.5	112507 04/12/93 14:15	3	6		SAA		SM	N/A	PID=1 ppm BT=60 cpm		
5.5 6.0	112507 04/12/93 14:15	5	6		SAA		SM	N/A	PID=1 ppm BT=60 cpm		
6.0 6.5	112507 04/12/93 14:15	8	5		SAA		SM	N/A	PID=1 ppm BT=60 cpm		
NOTES:											
Boring Contractor: PENNSYLVANIA DRILLING Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: SKID RIG CME 45											
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable											

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 11186				COORDINATES: NORTH 478010.24 EAST 1379587.91			DATE: 12-APR-93			
GROUND ELEVATION: 576.6				GWL: Depth Date/Time			DATE STARTED: 12-APR-93			
ENGINEER/GEOLOGIST: J BOYER				Depth Date/Time			DATE COMPLETE: 12-APR-93			
DRILLING METHOD: AUGER										
D E P T H d	S A M P L E E	D A T E T I M E E N	B L O W S P L O N E	R E C O V E R Y	I N C H E S		S Y S M C B S O L	T S F	REMARKS	
6.5 7.0	112508 04/12/93 14:30	8	6	MEDIUM DENSE, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY SAND WITH CLAY, LOW PLASTICITY, MOIST				ML	N/A	PID=1 ppm BT=60 cpm
7.0 7.5	112509 04/12/93 14:30	10.	6	STIFF, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY, MEDIUM PLASTICITY, WET				CL	2.0	PID=1 ppm BT=60 cpm
7.5 8.0	112510 04/12/93 14:30	14	6	SAA				CL	2.0	PID=1 ppm BT=60 cpm
8.0 8.5	112511 04/12/93 14:45	5	6	VERY STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, MOIST				CL	3.5	PID=1 ppm BT=60 cpm
8.5 9.0	112512 04/12/93 14:45	8	6	SAA				CL	3.0	PID=1 ppm BT=60 cpm
9.0 9.5	112513 04/12/93 14:45	16	6	VERY STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, SLIGHTLY MOIST				CL	3.0	PID=1 ppm BT=60 cpm
9.5 10.0	112514 04/12/93 15:00	3	6	MEDIUM DENSE, (2.5Y, 5/6) LIGHT OLIVE BROWN, CLAYEY SILT WITH GRAVEL, MOIST				ML	N/A	PID=1 ppm BT=60 cpm
10.0 10.5	112514 04/12/93 15:00	5	6	MEDIUM DENSE, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY SAND WITH GRAVEL, MOIST				SM	N/A	PID=1 ppm BT=60 cpm
10.5 11.0	112514 04/12/93 15:00	7	6	SAA				SM	N/A	PID=1 ppm BT=60 cpm
11.0 11.5	112514 04/12/93 15:00	8	6	SAA				SM	N/A	PID=1 ppm BT=60 cpm
11.5 12.0	112515 04/12/93 15:20	9	6	SAA				SM	N/A	PID=1 ppm BT=60 cpm
12.0 12.5	112516 04/12/93 15:20	8	6	MEDIUM DENSE, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY SAND WITH GRAVEL, WET				SM	N/A	PID=1 ppm BT=60 cpm
NOTES:										
Boring Contractor: PENNSYLVANIA DRILLING Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: SKID RIG CME 45										
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2-RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11187					COORDINATES: NORTH 477905.01 EAST 1379630.25					
GROUND ELEVATION: 580.5					GWL: Depth	Date/Time		DATE STARTED: 13-APR-93		
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 13-APR-93		
DRILLING METHOD: AUGER										
D E P T H	S A M P L E	D A T E E E	B L O W S O N	S A M P L E R E V E R Y	R E C O V E R Y	I N C H E S		S Y M C B S O L	T S F	REMARKS
2.0	112518 04/13/93 10:10	N/A	N/A	PUSHED SHELBY TUBE				N/A	N/A	
2.0 2.5	112519 04/13/93 10:30	5	6	SOFT, (2.5Y, 4/3) OLIVE BROWN, SILTY FINE SAND, LOW PLASTICITY, MOIST. BLACK FRAGMENTS PRESENT				ML	0.5	PID=1 ppm BT=50 cpm
2.5 3.0	112519 04/13/93 10:30	6	6	MEDIUM STIFF, (2.5Y, 4/3) OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, MOIST, SOME GRAVEL				CL	1	PID=1 ppm BT=50 cpm
3.0 3.5	112519 04/13/93 10:30	12	6	VERY STIFF, (2.5Y, 4/3) OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, MOIST, SOME GRAVEL				CL	3	PID=1 ppm BT=50 cpm
3.5 4.0	04/13/93 10:30	13	0	NO RECOVERY				N/A	N/A	
4.0 4.5	112520 04/13/93 10:35	5	6	VERY STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, MOIST, GRAVELS, PRESENT				CL	3.0	PID=1 ppm BT=200 cpm
4.5 5.0	112520 04/13/93 10:35	8	6	SOFT, (2.5Y, 4/3) OLIVE BROWN, SILTY FINE SAND, LOW PLASTICITY, MOIST, GRAVELS, PRESENT				ML	.5	PID=1 ppm BT=200 cpm
5.0 5.5	112520 04/13/93 10:35	10	4	VERY STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, SLIGHTLY PLASTIC, MOIST, GRAVELS				CL	3	PID=1 ppm BT=200 cpm
5.5 6.0	04/13/93 10:35	11	0	NO RECOVERY				N/A	N/A	
6.0 6.5	112521 04/13/93 10:45	7	6	VERY STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, SLIGHTLY PLASTIC, MOIST				CL	3.0	PID=1 ppm BT=150 cpm
6.5 7.0	112522 04/13/93 10:45	14	6	SAA				CL	3.0	PID=1 ppm BT=150 cpm
7.0 7.5	112523 04/13/93 10:45	18	6	VERY STIFF, (10YR, 5/4) YELLOWISH BROWN, SILTY CLAY, SLIGHTLY PLASTIC, MOIST, BLACK CONCRETIONS PRESENT				CL	3.0	PID=1 ppm BT=150 cpm
7.5 8.0	112524 04/13/93 13:15	9	6	STIFF, (10YR, 4/6) DARK YELLOWISH BROWN, SILTY CLAY, SLIGHTLY PLASTIC, MOIST				CL	2.0	PID=1 ppm BT=150 cpm
NOTES:										Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: CME-45
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 11187				COORDINATES: NORTH 477905.01 EAST 1379630.25			DATE: 13-APR-93			
GROUND ELEVATION: 580.5				GWL: Depth		Date/Time	DATE STARTED: 13-APR-93			
ENGINEER/GEOLOGIST: J BOYER				Depth		Date/Time	DATE COMPLETE: 13-APR-93			
DRILLING METHOD: AUGER										
D E P T H	S A M P L E	A D T M E E	D I M E S O N	B L O W S P E L E	S A M C P R E V E R Y	I N C H E R E S	S Y S M C B S O L	T S F	REMARKS	
8.0	112525 04/13/93 13:15	11	4	SOFT, (10YR, 5/4) YELLOWISH BROWN, SILTY CLAY, LOW PLASTICITY, MOIST				CL	1.0	PID=1 ppm BT=150 cpm
8.5				NO RECOVERY				N/A	N/A	
8.5	112526 04/13/93 13:15	11	0							
9.0										
9.0	112526 04/13/93 13:30	10	6	VERY STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, SLIGHTLY PLASTIC, MOIST				CL	3.0	PID=1 ppm BT=50 cpm
9.5	112526 04/13/93 13:30	15	6	SAA				CL	3	PID=1 ppm BT=50 cpm
10.0										
10.0	112526 04/13/93 13:30	N/A	6	STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, MOIST				N/A	N/A	PID=1 ppm
10.5								CL	2.0	BT=50 cpm
10.5	112527 04/13/93 13:30	25	6							
11.0										
11.0	112527 04/13/93 13:30	31	6	VERY STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, SLIGHTLY PLASTIC, MOIST				CL	3.0	PID=1 ppm BT=50 cpm
NOTES:										
Driller: JOE RAAB, ROGER DAVIS Drilling Equipment: CME-45 SAA ■ Same as Above PID = Photoionization Detector N/A ■ Not Applicable										

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11188					COORDINATES: NORTH 477843.64 EAST 1379479.87			DATE: 02-APR-93		
GROUND ELEVATION: 576.2					GWL: Depth Date/Time			DATE STARTED: 02-APR-93		
ENGINEER/GEOLOGIST: J BOYER					Depth Date/Time			DATE COMPLETE: 02-APR-93		
DRILLING METHOD: AUGER										
DEPTH	SAMPLE	AD TIME	BLOW COUNT	RECOVERY	INCHES			SYMBOL	TSF	REMARKS
.5	110537 04/02/93 09:30	5	6	HARD, (7.5YR, 4/3) BROWN, SILTY CLAY, LOW PLASTICITY, MOIST				CL	.4	PID=0 ppm BT=40 cpm
1.0	110538 04/02/93 09:30	18	6	SAME AS ABOVE				CL	4	PID=0 ppm BT=40 cpm
1.5	110539 04/02/93 09:30	9	6	SAME AS ABOVE				CL	4	PID=0 ppm BT=40 cpm
2.0	110540 04/02/93 10:00	13	6	MEDIUM STIFF, (10YR, 5/4) YELLOWISH BROWN, SILTY CLAY WITH GRAVEL, MOTTLING, LOW PLASTICITY, SLIGHTLY MOIST				CL	1.5	PID=0 ppm BT=55 cpm
2.5	110541 04/02/93 10:00	24	6	VERY STIFF, (10YR, 5/3) BROWN, SILTY CLAY WITH GRAVEL, MOTTLED, LOW PLASTICITY, SLIGHTLY MOIST				CL	3.5	PID=0 ppm BT=55 cpm
3.0	110542 04/02/93 10:00	26	6	SAA				CL	3	PID=0 ppm BT=40 cpm
3.5	110543 04/02/93 10:15	17	3	VERY STIFF, (10YR, 5/2) GRAYISH BROWN, SILTY CLAY, MOTTLING, SLIGHTLY MOIST, LOW PLASTICITY				CL	3.5	PID=0 ppm BT=40 cpm
4.0	110544 04/02/93 10:15	24	6	VERY STIFF, (10YR, 5/6) YELLOWISH BROWN, SILTY CLAY, SLIGHTLY MOIST, MEDIUM PLASTICITY				CL	3.5	PID=0 ppm BT=40 cpm
4.5	110545 04/02/93 10:15	34	6	HARD, (10YR, 5/3) BROWN, SILTY CLAY, TRACE GRAVEL, LOW PLASTICITY, SLIGHTLY MOIST				CL	4	PID=0 ppm BT=40 cpm
5.0	110546 04/02/93 10:30	19	0	HARD, (10YR, 6/2) LIGHT BROWNISH GRAY, SILTY CLAY WITH GRAVEL, LOW PLASTICITY, SLIGHTLY MOIST				CL	4	PID=0 ppm BT=40 cpm
5.5	110547 04/02/93 10:30	18	6	HARD, (10YR, 5/4) YELLOWISH BROWN, SILTY CLAY, TRACE GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST				CL	4	PID=0 ppm BT=40 cpm
6.0	110547 04/02/93 10:30	17	6	SAA				CL	4	PID=0 ppm BT=40 cpm
6.5	110548 04/02/93 11:00	5	3	VERY STIFF, (10YR, 5/3) BROWN, SILTY CLAY, TRACE GRAVEL, LOW PLASTICITY, SLIGHTLY MOIST				CL	3.0	PID=0 ppm BT=40 cpm
NOTES:										
Boring Contractor: PENNSYLVANIA DRILL Driller: DAN JAMISON, ROGER DAVID Drilling Equipment: MOBILE										
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION								
BORING NUMBER: 11188					COORDINATES: NORTH 477843.64 EAST 1379479.87			DATE: 02-APR-93					
GROUND ELEVATION: 576.2					GWL: Depth	Date/Time		DATE STARTED: 02-APR-93					
ENGINEER/GEOLOGIST: J BOYER					Depth	Date/Time		DATE COMPLETE: 02-APR-93					
DRILLING METHOD: AUGER													
D E P T H	S A M P L E	D A T E E E	B L O W S E N	T I M E E R Y	R E C O V E R Y	I N C H E S	S U S M C B S O L	T S F	REMARKS				
6.5 7.0	110549 04/02/93 11:00	4		6	VERY STIFF, (10YR, 5/3) BROWN, SILTY CLAY, LOW PLASTICITY, SLIGHTLY MOIST			CL	3.5	PID=0 ppm BT=40 cpm			
7.0 7.5	110550 04/02/93 11:00	8		6	VERY STIFF, (10YR, 5/3) BROWN, SILTY CLAY, LOW PLASTICITY, SLIGHTLY MOIST			CL	2.5	PID=0 ppm BT=40 cpm			
7.5 8.0	110551 04/02/93 11:15	19		6	VERY STIFF, (5Y, 5/3) OLIVE, SILTY CLAY, LOW PLASTICITY, SLIGHTLY MOIST			CL	2.5	PID=0 ppm BT=40 cpm			
8.0 8.5	110552 04/02/93 11:15	21		6	VERY STIFF, (5Y, 5/3) OLIVE, SILTY CLAY, LOW PLASTICITY, TRACE ORGANICS, SLIGHTLY MOIST			CL	3.0	PID=0 ppm BT=40 cpm			
8.5 9.0	110553 04/02/93 11:15	32		6	VERY STIFF, (2.5Y, 6/4) LIGHT YELLOWISH BROWN, LOW PLASTICITY, SLIGHTLY MOIST			CL	3.5	PID=0 ppm BT=40 cpm			
9.0 9.5	110554 04/02/93 13:30	11		6	VERY STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, MEDIUM PLASTICITY, SLIGHTLY MOIST			CL	2.5	PID=0 ppm BT=45 cpm			
9.5 10.0	110555 04/02/93 13:30	18		6	SAA			CL	3.5	PID=0 ppm BT=45 cpm			
10.0 10.5	110556 04/02/93 13:30	19		6	DENSE, (2.5Y, 6/3) LIGHT YELLOWISH BROWN, CLAYEY SILT, NO PLASTICITY, WET			ML	N/A	PID=0 ppm BT=45 cpm			
10.5 11.0	110556 04/02/93 13:30	16		6	VERY SOFT, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, WET			CL ML	1	PID=0 ppm BT=40 cpm			
11.0 11.5	110558 04/02/93 14:00	21		6	SAA			CL	1.0	PID=0 ppm BT=40 cpm			
11.5 12.0	110559 04/02/93 14:00	24		6	DENSE, (2.5Y, 5/6) LIGHT OLIVE BROWN, CLAYEY SILT, SLIGHT PLASTICITY, WET TO MOIST			ML	N/A	PID=0 ppm BT=40 cpm			
NOTES:										Boring Contractor: PENNSYLVANIA DRILL Driller: DAN JAMISON, ROGER DAVID Drilling Equipment: MOBILE			
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable			

001214

F-18-136

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PROJECT NUMBER: 602 3.2					PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION						
BORING NUMBER: 2046					COORDINATES: NORTH 478058.45 EAST 1379418.68			DATE: 13-DEC-88			
GROUND ELEVATION: 575.9					GWL: Depth	Date/Time	DATE STARTED: 13-DEC-88				
ENGINEER/GEOLOGIST: W.A. HERTEL					Depth	Date/Time	DATE COMPLETE: 18-DEC-88				
DRILLING METHOD: CABLE-TOOL DRILLING											
D E P T H	S A M P L E	D A T E E E	B L O O L E	S A M P L E R E C O V E R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS		
30.0 31.5	008950 12/14/88 13:50	17 22 27	15	DENSE, YELLOWISH BROWN (10 YR 5/6) POORLY GRADED SAND LESS THAN 5% GRAVEL, DRY					SP	N/A	PID=0 ppm α =0 ppm BT=40-60 cpm
35.5 37.0	008951 12/14/88 14:50	9 35 38	15	VERY DENSE, YELLOWISH BROWN (10 YR 5/6) POORLY GRADED SAND LESS THAN 1% GRAVEL (DRY)					SP	N/A	PID=0 ppm α =0 ppm BT=40-80 cpm
41.0 42.5	008952 12/14/88 15:20	16 46 43	14	VERY DENSE, LIGHT YELLOWISH BROWN, (10 YR 6/4) WELL GRADED SAND AND GRAVEL (DRY)					SW	N/A	PID=0 ppm α =0 ppm BT=40-80 cpm
61.0 62.5	008956 12/15/88 13:30	5 6 11	15	MEDIUM DENSE, YELLOWISH BROWN (10 YR 5/6) POORLY GRADED SAND, LESS THAN 5% GRAVEL, WET					SP	N/A	PID=0 ppm α =0 ppm BT=40-80 cpm
66.0 67.5	008957 12/15/88 14:30	20 27 26	12	VERY DENSE, PALE BROWN, (10 YR 6/3) WELL GRADED SAND AND GRAVEL, APPROX. 10% GRAVEL, WET					SW	N/A	PID=0 ppm α =0 ppm BT=40-80 cpm
71.5 73.0	008958 12/15/88 16:05	6 7 9	15	MEDIUM DENSE, BROWN (10 YR 4/3) WELL GRADED SAND AND GRAVEL, 10% GRAVEL, WET					SW	N/A	PID=0 ppm α =0 ppm BT=40-80 cpm
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 602 3.2					PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION					
BORING NUMBER: 2049					COORDINATES: NORTH 477020.51 EAST 1380072.04			DATE: 06-OCT-87		
GROUND ELEVATION: 540.7					GWL: Depth		Date/Time		DATE STARTED: 06-OCT-87	
ENGINEER/GEOLOGIST: LOWELL WILLE					Depth	Date/Time		DATE COMPLETE: 14-OCT-87		
DRILLING METHOD: CABLE-TOOL DRILLING										
D E P T H	S A M P L E	D E E	T I M E	B L O W S P L E O N	S A M P T I M E	R E C O V E R Y	I N C H E R Y	S Y U S S M B C B S O L	T S F	REMARKS
1.5	007280 10/06/87 16:30	6 9 7	16	SOFT BLACK (7.5YR, 3/0) ORGANIC SILTY CLAY, SOME SAND AND FLYASH - MOIST. LIMESTONE ROCK. SI - BACKGROUND (SCANT)	CL	N/A				
1.5 3.0	007281 10/06/87 17:30	6 5 5	16	STIFF BROWN (10YR, 6/4) SILTY CLAY, SOME SAND AND PEBBLES - DRY. STIFF BROWN (10YR, 4/6) SILTY CLAY, TRACE SAND, SOME PEBBLES AND GRAVEL - DRY	CL CL	3.5 3.0				
3.0 4.5	007282 10/06/87 17:40	30 42 20	17	STIFF BROWN (10YR, 4/6) SILTY CLAY, TRACE SAND AND PEBBLES, SOME GRAVEL - DRY. DENSE BROWN (10YR, 6/5) SAND AND GRAVEL, SOME SILT AND CLAY - DRY.	CL GM	3.7 N/A				
4.5 6.0	007283 10/07/87 14:15	6 7 9	11	LOOSE BROWN (10YR, 6/4) SAND AND GRAVEL, SOME SILT AND CLAY - SILTY CLAY, DENSE AT 5.5 FEET - DRY.	GM	N/A				
6.0 7.5	007284 10/07/87 14:50	18 17 21	16	DENSE, BROWN (10YR, 6/5) SAND AND GRAVEL SOME PEBBLES, TRACE SILT AND CLAY - DRY.	GM	N/A				
7.5 9.0	007285 10/07/87 15:00	18 20 15	16	DENSE BROWN (10YR, 4/5) SAND AND GRAVEL, SOME SILT AND CLAY, TRACE PEBBLES - DRY. SCANT BACKGROUND SAMPLE.	GM	N/A				
9.0 10.5	007286 10/07/87 17:15	18 26 38	16	DENSE BROWN (10YR, 6/4) MEDIUM TO FINE SAND - TRACE SILT AND CLAY - DRY. DENSE, BROWN (10YR, 6/4) MEDIUM TO FINE SAND - TRACE SILT AND CLAY - DRY. DENSE BROWN (10YR, 6/4) SAND AND GRAVEL, SOME SILT AND CLAY, TRACE PEBBLES - DRY.	SM SM GM	3.0 2.8 N/A				
15.0 16.5	007288 10/08/87 09:30	15 22 28	16	DENSE, BROWN (10YR, 5/6) SAND AND GRAVEL, SOME SILT, CLAY AND PEBBLES - DRY.	GM	N/A				
20.0 21.5	007289 10/08/87 10:30	17 22 21	16	DENSE, BROWN (10YR, 5/6) SAND AND GRAVEL, SOME SILT, CLAY AND PEBBLES - DRY.	GM	N/A				
25.0 26.5	007290 10/13/87 09:10	9 9 8	13	LOOSE BROWN (10YR, 6/8) SANDY GRAVEL, SOME SILT AND CLAY - MOIST.	GM	N/A				
30.0 31.5	007291 10/13/87 11:05	35 30 26	17	DENSE, BROWN (10YR, 6/6) SANDY GRAVEL, -SOME SILT AND CLAY, TRACE PEBBLES AND COBBLES - MOIST.	GM	<0.1	$\alpha=1 \text{ ppm}$ $BT=65 \text{ cpm}$			
35.0 36.5	007292 10/13/87 13:35	6 6 8	18	LOOSE BROWN (10YR, 5/4) SAND, SOME SILT AND CLAY - TRACE GRAVEL - WET.	SM SM	N/A <0.	$\alpha=1 \text{ ppm}$ $BT=65 \text{ cpm}$			
40.0 41.5	007293 10/13/87 15:15	6 9 25	18	LOOSE, BROWN (10YR, 5/4) SAND, SOME SILT, CLAY AND GRAVEL - WET. DENSE, BROWN (10YR, 6/6) SANDY GRAVEL, SOME PEBBLES, COBBLES, SILT AND CLAY - WET. BOTTOM OF BORING 41.5 FEET.	SM GM	<0.1	$\alpha=1 \text{ ppm}$ $BT=65 \text{ cpm}$			

NOTES:

SAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

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PROJECT NUMBER: 602 3.2					PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION					
BORING NUMBER: 2065					COORDINATES: NORTH 477866.51 EAST 1380434.37					
GROUND ELEVATION: 571.5					GWL: Depth	Date/Time			DATE STARTED: 24-SEP-87	
ENGINEER/GEOLOGIST: D.OAKLEY/L.WILL					Depth	Date/Time			DATE COMPLETE: 01-OCT-87	
DRILLING METHOD: CABLE-TOOL DRILLING										
D E P T H	S A M P L E	D A T E E E	B L O W S P E E N O N	T I M E E E R Y	R E C O V E R Y	I N C H E S	S U M C B S O L	T S F	REMARKS	
1.5	007175 09/24/87 11:00	5 12 11	12	12	VERY SOFT, DARY YELLOWISH BROWN 10YR 4/4 SILT, SOME CLAY, TRACE TRAVEL AND SAND, MOIST.					ML 0.2 PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-80$ cpm
1.5 3.0	007176 09/24/87 11:15	8 7 12	10	10	HARD BROWNISH, YELLOW 10YR, 6/6 CLAY SOME SILT, TRACE GRAVEL AND SAND, DRY. HARD BROWNISH, YELLOW 10YR, 6/8 SILT, SOME CLAY, TRACE GRAVEL AND SAND, DRY.					CL ML 4.5 0.5 PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-80$ cpm
4.5	007177 09/24/87 11:30	4 5 7	9	9	MEDIUM STIFF, YELLOWISH BROWN 10YR, 5/4 SILT, SOME CLAY, TRACE GRAVEL AND SAND, DRY.					ML 1.25 PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-80$ cpm
4.5 6.0	007178 09/24/87 11:45	7 11 12	16	16	VERY STIFF, YELLOWISH BROWN, 10YR 5/6 SILT, SOME CLAY TRACE GRAVEL, DRY.					ML 2.0 PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-80$ cpm
6.0 7.5	007179 09/24/87 12:05	9 10 10	13	13	VERY STIFF BROWNISH YELLOW 10YR 6/8 SILT, SOME SAND AND CLAY - DRY.					ML 3.0 PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-80$ cpm
7.5 9.0	007180 09/29/87 10:15	22 23 22	14	14	DENSE BROWN 7 1/2 5/6 SAND AND GRAVEL, SOME SILT AND CLAY - MOIST. STIFF BROWN 7 1/2 5/6 MOTTLED ORANGE AND RED SILTY CLAY, TRACE SAND - MOIST.					ML ML 1.0 PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-80$ cpm
9.0 10.5	007181 09/29/87 10:40	2 4 11	11	11	MEDIUM STIFF GRAY 5YR 4/2 SILT CLAY SOME PEBBLES TRACE FINE SAND AND GRAVEL, MOIST.					ML 0.5 PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-80$ cpm
10.5 12.0	007182 09/29/87 11:00	3 3 14	10	10	STIFF BROWN GRAY 5YR 4/2 SILTY CLAY, SOME PEBBLES TRACE FINE SAND - MOIST.					ML 1.0 PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-80$ cpm
12.0 13.5	007183 09/29/87 11:10	10 20 25	12	12	MEDIUM STIFF GRAY 5 1/2YR 3/0 SILTY CLAY, SOME PEBBLES, TRACE FINE SAND - DRY.					ML 0.5 PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-80$ cpm
13.5 15.0	007184 09/29/87 11:40	4 9 14	12	12	STIFF GRAY 5YR 3/0 SILTY CLAY, SOME PEBBLES AND FINE SAND - MOIST.					ML 1.0 PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-80$ cpm
15.0 16.5	007185 09/29/87 12:05	10 33 50	14	14	VERY DENSE BROWN 10YR, 5/2 SAND AND GRAVEL, SOME SILT AND CLAY, TRACE PEBBLES - MOIST.					SP 1.25 PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-80$ cpm
18.0 19.5	007187 09/29/87 14:45	18 30 44	12	12	DENSE, BROWN (10YR 4/2) SAND AND GRAVEL, SOME SILT, CLAY, TRACE PEBBLES - DRY					SP 1.50 PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-80$ cpm
19.5 21.0	007188 09/29/87 15:15	19 31 27	14	14	DENSE, BROWN (10YR 5/2) SAND AND GRAVEL, SOME SILT, CLAY AND PEBBLES, TRACE STONES, DRY.					SP 1.50 PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-80$ cpm
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

001217

REC'D BY

F-18-139

02/02/94 17:03

PROJECT NUMBER: 13.2				PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION							
BORING NUMBER:				COORDINATES: NORTH 477866.51 EAST 1380434.37				DATE: 24-SEP-87			
GROUND ELEVATION: .5				GWL: Depth			Date/Time		DATE STARTED: 24-SEP-87		
ENGINEER/GEOLOGIST: OAKLEY/L.WILL				Depth			Date/Time		DATE COMPLETE: 01-OCT-87		
DRILLING METHOD: CABLE TOOL DRILLING											
D E P T H	S A M P L E	D A T E E	B L O W N E	S A M P L E	R E C O V E R Y	I N C H E S		S Y S M C B S O L	T S F	REMARKS	
35.0	007191 09/29/87 16:40	8 17 22	18	DENSE BROWN 10YR 4/3 BROWN SAND, SOME SILT, CLAY AND FINE GRAVEL, TRACE MEDIUM TO COARSE GRAVEL AND PEBBLES - MOIST.					SP	0.5	PID=0 ppm $\alpha=0$ ppm BT=40-80 cpm
36.5	007193 09/30/87 09:45	18 14 18	18	DENSE BROWN 10YR 5/4 COARSE SAND AND GRAVEL, SOME SILT, CLAY AND PEBBLES, TRACE STONES, MOIST (POSSIBLE WET).					GP	N/A	PID=0 ppm $\alpha=0$ ppm BT=40-80 cpm
45.0	007194 09/30/87 14:30	6 17 20	7	LOOSE BROWN 10YR 3/2 SAND AND GRAVEL, SOME SILT AND CLAY, TRACE COBBLES AND STONES, MOIST (POSSIBLE WET).					SP	N/A	PID=0 ppm $\alpha=0$ ppm BT=40-80 cpm
50.0	007195 09/30/87 16:30	7 6 12	7	LOOSE GRAY 7 1/2 4/0 SAND, SOME FINE GRAVEL AND SILT, TRACE CLAY - WET.					SP	N/A	PID=0 ppm $\alpha=0$ ppm BT=40-80 cpm
56.5	007196 09/30/87 17:20	11 7 7	7	LOOSE GRAY 7 1/2YR 4/0 SAND, SOME FINE GRAVEL AND SILT, TRACE CLAY - WET.					N/A	N/A	PID=0 ppm $\alpha=0$ ppm BT=40-80 cpm
60.0	007197 10/01/87 10:30	4 11 15	7	LOOSE GRAY 5YR 5/0 SAND AND GRAVE, SOME SILT, PEBBLES AND CLAY -WET.					N/A	N/A	PID=0 ppm $\alpha=0$ ppm BT=40-80 cpm
NOTES: SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable											

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PROJECT NUMBER: 602 3.2					PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION				
BORING NUMBER: 2385					COORDINATES: NORTH 477886.51 EAST 1379923.25			DATE: 20-APR-90	
GROUND ELEVATION: 577.6					GWL: Depth	Date/Time		DATE STARTED: 20-APR-90	
ENGINEER/GEOLOGIST: M. SWANSON					Depth	Date/Time		DATE COMPLETE: 25-APR-90	
DRILLING METHOD: CABLE-TOOL DRILLING									
DEPTH	S A M P L E	D T E E	B L O W S O N	S A M P L E	R E C O V E R Y	I N C H E S	S U S M C B S O L	T S F	REMARKS
1.5	032619 04/20/90 11:10	3 18 25		14	FIRM, VERY DARK BROWN (10 YR 2/2) MOTTLED, CLAYEY SILT, SLIGHT PLASTICITY, FRIABLE, DRY.		ML	1.0	PID=0.1 ppm $\alpha=0$ ppm $\beta\Gamma=40$ cpm
1.5 3.0	032620 04/20/90 11:16	13 13 21		4	FIRM, VERY DARK BROWN (10 YR 2/2) MOTTLED, CLAYEY SILT, SLIGHT PLASTICITY, FRIABLE, DRY. FIRM, YELLOWISH BROWN (10 YR 5/4) MOTTLED, SILTY CLAY, SOME SAND, LOW PLASTICITY, DRY TO SLIGHTLY MOIST.		ML CL	1.0 1.7	PID=0.1 ppm $\alpha=0$ ppm $\beta\Gamma=40$ cpm
3.0 4.5	032621 04/20/90 11:23	13 13 13		18	FIRM, YELLOWISH BROWN (10 YR 5/4) MOTTLED, SILTY CLAY, SOME SAND, LOW PLASTICITY, DRY TO SLIGHTLY MOIST.		CL	1.75	PID=0.1 ppm $\alpha=0$ ppm $\beta\Gamma=40-50$ cpm
4.5 6.0	032622 04/20/90 11:27	8 9 11		12	FIRM, YELLOWISH BROWN (10 YR 5/4) MOTTLED, SILTY CLAY, SOME SAND, LOW PLASTICITY, DRY TO SLIGHTLY MOIST. FIRM, GRAYISH BROWN (2.5 Y 5/2) MOTTLED CLAY, SOME SAND, SILT; LOW PLASTICITY, DRY.		CL CL	1.75 2.0	PID=0.1 ppm $\alpha=0$ ppm $\beta\Gamma=50-60$ cpm
6.0 7.5	032623 04/20/90 11:31	7 9 11		18	FIRM, BROWNISH YELLOW (10 YR 6/6) CLAY, SOME GRAVEL, SAND, LOW TO MED. PLASTICITY, MOIST. FIRM, LIGHT YELLOWISH BROWN (10 YR 6/4) MOTTLED, CLAY, TRACE OF SAND, DRY, LOW PLASTICITY.		CL CL	1.0 2.0	PID=0.1 ppm $\alpha=0$ ppm $\beta\Gamma=40-60$ cpm
7.5 9.0	032624 04/20/90 11:37	8 8 9		18	HARD, LIGHT OLIVE BROWN (2.5 Y 5/4) CLAY, SOME SAND, .25 IN. SAND LENSE WITH WATER AT 8.7 FT., LOW PLASTICITY, MOIST		CL	2.5	PID=0.1 ppm $\alpha=0$ ppm $\beta\Gamma=40-50$ cpm
9.0 10.5	032625 04/20/90 15:10	1 5 7		16	FIRM, BROWNISH YELLOW (10 YR 6/8) SANDY CLAY, HIGH PLASTICITY, MOIST; SAND LENSES OF 1 IN. AT 9.6 AND 10.1 FT.		CH	.75	PID=0.5 ppm $\alpha=0$ ppm $\beta\Gamma=40-60$ cpm
10.5 12.0	032626 04/20/90 15:14	6 8 10		18	FIRM, BROWNISH YELLOW (10 YR 5/8), SAND-CLAY MIXTURE, SOME ANGULAR TO SUBROUNDED PEBBLES, LOW TO MEDIUM PLASTICITY MOIST CLAY, WET SANDS SAND LENSE .5 IN. THICK AT 12.3 FT. HARD, GRAY (10 YR 5/1), SILTY CLAY, TRACE OF SAND, LOW PLASTICITY, DRY.		CL	1.25	PID=0.3 ppm $\alpha=0$ ppm $\beta\Gamma=40-50$ cpm
12.0 13.5	032627 04/20/90 15:35	6 7 10		18	FIRM, BROWNISH YELLOW (10 YR 6/8), SAND-CLAY MIXTURE SOME ANGULAR TO SUBROUNDED PEBBLES, LOW TO MEDIUM PLASTICITY MOIST CLAY, WET SANDS SAND LENSE .5 IN. THICK AT 12.3 FT. HARD, GRAY (10 YR 5/1), SILTY CLAY, TRACE OF SAND, LOW PLASTICITY, DRY.		CL CL	1.25 2.7	PID=0.2 ppm $\alpha=0$ ppm $\beta\Gamma=40-60$ cpm
13.5 15.0	032628 04/20/90 15:41	7 9 12		15	HARD, GRAY (10 YR 5/1), SILTY CLAY, TRACE OF SAND, LOW PLASTICITY, DRY.		CL	2.75	PID=0.2 ppm $\alpha=0$ ppm $\beta\Gamma=50-60$ cpm
15.0 16.5	032629 04/20/90 15:52	3 3 6		10	HARD, GRAY (10 YR 5/1) CLAY, SOME ANGULAR PEBBLES, TRACE OF SILT, LOW PLASTICITY, DRY		CL	2.5	PID=0.5 ppm $\alpha=0$ ppm $\beta\Gamma=40-60$ cpm
16.5 18.0	032630 04/20/90 16:02	6 9 10		18	HARD, GRAY (10 YR 5/1) CLAY, SOME ANGULAR PEBBLES, TRACE OF SILT, LOW PLASTICITY, DRY		CL	2.5	PID=0.5 ppm $\alpha=0$ ppm $\beta\Gamma=50-60$ cpm
NOTES:									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

88-2007

F-18-141

001219

02/02/94 17:03

PROJECT NUMBER: 602 3.2						PROJECT NAME: CRUZ RI PHASE I FIELD INVESTIGATION					
BORING NUMBER: 2385						COORDINATES: NORTH 477886.51 EAST 1379923.25					
GROUND ELEVATION: 577.6						GWL: Depth Date/Time			DATE STARTED: 20-APR-90		
ENGINEER/GEOLOGIST: M. SWANSON						Depth Date/Time			DATE COMPLETE: 25-APR-90		
DRILLING METHOD: CABLE-TOOL DRILLING											
DEPTH	SAMPLE	DATE	BLOW	SAUCER	REMARKS	SYNTHETIC	SOIL	TYPE	TEST	REMARKS	
DEEPE	TIME	MONTH	NUMBER	THICKNESS		SMC8	SOL	TSF			
18.0 19.5	032631 04/20/90 16:07	7 10 12	10 12	12	HARD, GRAY (10 YR 5/1) CLAY, SOME ANGULAR PEBBLES, TRACE OF SILT, LOW PLASTICITY, DRY	CL	2.5	PID=0.4 ppm $\alpha=0$ ppm BT=40-50 cpm			
19.5 21.0	032632 04/21/90 09:40	10 18 30	18 30	14	HARD, OLIVE GRAY (5 Y 5/2) SILTY CLAY, TRACE OF SAND, LIMESTONE COBBLE, DRY.	CL	3.5	PID=0.1 ppm $\alpha=0$ ppm BT=40 cpm			
21.0 22.5	032633 04/21/90 10:05	17 20 25	20 25	16	HARD, OLIVE GRAY (5 Y 5/2) SILTY CLAY, TRACE OF SAND, LIMESTONE COBBLE, DRY.	CL	3.5	PID=0.1 ppm $\alpha=0$ ppm BT=40-60 cpm			
22.5 24.0	032634 04/21/90 10:12	12 17 32	17 32	18	HARD, OLIVE GRAY (5 Y 5/2), SILTY CLAY, TRACE OF SAND, LIMESTONE COBBLE, DRY. DENSE, YELLOWISH BROWN (10 YR 5/6) POORLY GRADED FINE SAND, DRY.	CL SP	3.5	PID=0.1 ppm $\alpha=0$ ppm BT=40-60 cpm			
24.0 25.5	032635 04/21/90 10:40	16 42 36	42 36	16	VERY DENSE, LIGHT GRAY (10 YR 7/1) AND BLACK (10 YR 2/1) WITH BROWNISH YELLOW (10 YR 6/8), WELL GRADED SAND, SOME PEBBLES AND GRAVEL (SUBROUNDED), DRY.	SW	N/A	PID=0.1 ppm $\alpha=0$ ppm BT=40-60 cpm			
30.0 31.5	032636 04/21/90 14:19	5 16 21	16 21	9	DENSE, YELLOWISH BROWN (10 YR 5/6), WELL GRADED GRAVELLY SANDS, SUBROUNDED, DRY.	SW	N/A	PID=0.08 ppm $\alpha=0$ ppm BT=60-70 cpm			
35.0 36.5	032637 04/21/90 14:41	13 17 27	17 27	10	DENSE, LIGHT GRAY (10 YR 7/1) WITH BANDS OF YELLOWISH BROWN (10 YR 5/6) POORLY GRADED FINE SAND, SOME ROUNDED PEBBLES, DRY.	SP	N/A	PID=0.1 ppm $\alpha=0$ ppm BT=70 cpm			
40.0 41.5	032638 04/21/90 15:40	18 19 19	19 19	12	DENSE, YELLOWISH BROWN (10 YR 5/6) POORLY GRADED FINE SAND, DRY.	SP	N/A	PID=0.5 ppm $\alpha=0$ ppm BT=40 cpm			
45.0 46.5	032639 04/21/90 16:18	3 23 26	23 26	8	DENSE, BROWNISH YELLOW (10 YR 6/6) WELL GRADED GRAVELLY SAND, SUBROUNDED, MOIST.	SW	N/A	PID=0.5 ppm $\alpha=0$ ppm BT=40-65 cpm			
50.0 51.5	032640 04/22/90 08:50	9 19 41	19 41	11	VERY DENSE, LIGHT YELLOWISH BROWN (10 YR 6/4) WELL GRADED GRAVELLY SAND, SOME PEBBLES, SUBROUNDED TO SUBANGULAR, DRY TO SLIGHTLY MOIST.	SW	N/A	PID=0.15 ppm $\alpha=0$ ppm BT=60-80 cpm			
55.0 56.5	032641 04/22/90 09:55	5 13 38	13 38	7	VERY DENSE, PALE BROWN (10 YR 6/3) POORLY GRADED GRAVELLY FINE SAND, ROUNDED TO SUBANGULAR, SATURATED; 1.0 IN BAND OF IRON OXIDE STAINING AT 55.4 FT.	SP	N/A	PID=0.20 ppm $\alpha=0$ ppm BT=70-80 cpm			
60.0 61.5	032642 04/22/90 11:10	5 8 13	8 13	6	MEDIUM DENSE, GRAY (10 YR 5/1) GRAVELLY PEBBLEY SAND, WELL GRADED AND FINE TO COARSE, LIMESTONE COBBLE, SUBROUNDED, SATURATED.	SW	N/A	PID=0.1 ppm $\alpha=0$ ppm BT=60-80 cpm			
65.0 66.5	032643 04/22/90 13:15	13 16 18	16 18	8	DENSE, GRAYISH BROWN (10 YR 5/2), WELL GRADED GRAVELLY SAND, SUBROUNDED, SATURATED.	SW	N/A	PID=0.1 ppm $\alpha=0$ ppm BT=50-60 cpm			
NOTES:											
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable											

6509

02/02/94 17:03

FEMP-OU02-6 FINAL
January 21, 1995 Page 3

PROJECT NUMBER: 602 3.2					PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION						
BORING NUMBER: 2385					COORDINATES: NORTH 477886.51 EAST 1379923.25			DATE: 20-APR-90			
GROUND ELEVATION: 577.6					GWL: Depth	Date/Time		DATE STARTED: 20-APR-90			
ENGINEER/GEOLOGIST: M. SWANSON					Depth	Date/Time		DATE COMPLETE: 25-APR-90			
DRILLING METHOD: CABLE-TOOL DRILLING											
D E P T H	S A M P L E	D A T E E E	B L O W S O N	T I M E E S	R E C O V E R Y	I N C H E S		S U S M C B S O L	T S F	REMARKS	
70.0	032644	04/22/90	15	21	6	DENSE, GRAYISH BROWN (10 YR 5/2), WELL GRADED GRAVELLY COARSE SAND, ROUNDED TO SUBANGULAR, SATURATED.			SW	N/A	PID=0.15 ppm $\alpha=0$ ppm $\beta=40-50$ cpm
71.5		14:45	29								
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

001221

F-18-143

02/02/94 17:03

PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 2943					COORDINATES: NORTH 477474.62 EAST 1379635.87			DATE: 12-APR-93	
GROUND ELEVATION: 573.5					GWL: Depth 54	Date/Time 16-Apr-93 12:55		DATE STARTED: 12-APR-93	
ENGINEER/GEOLOGIST: KEN GEIGER					Depth 51.6	Date/Time 21-Apr-93 08:00		DATE COMPLETE: 20-APR-93	
DRILLING METHOD: CABLE TOOL									
D E P T H	S A M P L E	D A T E E E	B L O W S P L E	S A M W O N E	R E C O V E R Y	I N C H E R E S	S U Y S M C B S O L	T S F	REMARKS
1.5	110737 04/12/93 14:20	1 2 1	11		STIFF, DARK YELLOWISH BROWN, (10YR, 4/4), SILTY CLAY WITH SOME PEBBLES AND ROCK FRAGMENTS, MEDIUM PLASTICITY, SLIGHTLY MOIST		CL	1.25	PID=0 ppm $\alpha=0$ ppm $BT=90$ cpm
1.5 3.0	110738 04/12/93 14:25	4 7 12	10		VERY STIFF, YELLOWISH BROWN, (10YR, 5/4), SILTY SANDY CLAY WITH ROCK FRAGMENTS, MEDIUM PLASTICITY, SLIGHTLY MOIST		CL	2.5	PID=0 ppm $\alpha=0$ ppm $BT=60$ cpm
3.0 4.5	110739 04/12/93 14:30	13 18 18	11		HARD, LIGHT OLIVE BROWN (2.5Y, 5/4) SILTY SANDY CLAY WITH ROCK FRAGMENTS AND PEBBLES, LOW PLASTICITY, SLIGHTLY MOIST		CL	4.5	PID=5 ppm $\alpha=0$ ppm $BT=80$ cpm
4.5 6.0	110740 04/12/93 14:35	17 19 15	6		VERY STIFF, YELLOWISH BROWN, (10YR, 5/4), SILTY SANDY CLAY WITH ROCK FRAGMENTS, LOW PLASTICITY, SLIGHTLY MOIST		CL	4	PID=2 ppm $\alpha=0$ ppm $BT=90$ cpm
6.0 7.5	110741 04/12/93 14:40	10 8 7	13		MEDIUM STIFF, GRAYISH BROWN, (2.5Y, 5/2), SILTY SANDY CLAY WITH ROCK FRAGMENTS, LOW PLASTICITY, MOIST		CL	1	PID=2 ppm $\alpha=0$ ppm $BT=60$ cpm
7.5 9.0	110742 04/12/93 14:45	6 6 9	10		SOFT, DARK GRAYISH BROWN, (2.5Y, 4/2), SILTY SANDY CLAY WITH ROCK FRAGMENTS, MEDIUM PLASTICITY, MOIST		CL	0.5	PID=2 ppm $\alpha=0$ ppm $BT=90$ cpm
9.0 10.5	110743 04/12/93 14:50	10 16 17	13		VERY SOFT, DARK GRAYISH BROWN, (2.5Y, 4/2), SILTY SANDY CLAY WITH ROCK FRAGMENTS, MEDIUM PLASTICITY, MOIST		CL	0.25	PID=2 ppm $\alpha=0$ ppm $BT=100$ cpm
10.5 12.0	110744 04/12/93 16:45	10 12 14	7		MEDIUM STIFF, OLIVE BROWN, (2.5Y, 4/3), SILTY CLAY WITH A TRACE OF GRAVEL, HIGH PLASTICITY, MOIST		CH	1	PID=0 ppm $\alpha=0$ ppm $BT=80$ cpm
12.0 13.5	110745 04/13/93 08:45	15 17 17	16		SOFT, LIGHT OLIVE BROWN, (2.5Y, 5/4), SILTY SANDY CLAY, HIGH PLASTICITY, MOIST		CH	0.5	PID=0 ppm $\alpha=0$ ppm $BT=60$ cpm
13.5 15.0	110746 04/13/93 09:00	12 15 17	12		SOFT, LIGHT OLIVE BROWN, (2.5Y, 5/4), SILTY, SANDY CLAY, MEDIUM PLASTICITY, MOIST		CL	0.5	PID=0 ppm $\alpha=0$ ppm $BT=70$ cpm
15.0 16.5	110747 04/13/93 09:07	9 13 21	13		STIFF, OLIVE BROWN, (2.5Y, 4/4), SILTY, SANDY, GRAVELLY CLAY, MEDIUM PLASTICITY, MOIST		CL	2	PID=0 ppm $\alpha=0$ ppm $BT=70$ cpm
16.5 18.0	110748 04/13/93 09:15	9 14 14	12		VERY STIFF, GRAYISH BROWN, (2.5Y, 5/2), SILTY, SANDY CLAY, MEDIUM PLASTICITY, MOIST		CL	3	PID=0 ppm $\alpha=0$ ppm $BT=60$ cpm
18.0 19.5	110749 04/13/93 09:30	9 16 19	13		HARD, DARK GRAY, (2.5Y, 4/1), SILTY CLAY WITH SOME GRAVEL, LOW PLASTICITY, MOIST		CL	4.5	PID=0 ppm $\alpha=0$ ppm $BT=90$ cpm
NOTES:									
Driller: DAVE NEWMAN									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

02/02/94 17:03

PROJECT NUMBER: 20.03.05						PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 2943						COORDINATES: NORTH 477474.62 EAST 1379635.87					
GROUND ELEVATION: 573.5						GWL: Depth 54	Date/Time 16-Apr-93 12:55		DATE STARTED: 12-APR-93		
ENGINEER/GEOLOGIST: KEN GEIGER						Depth 51.6	Date/Time 21-Apr-93 08:00		DATE COMPLETE: 20-APR-93		
DRILLING METHOD: CABLE TOOL											
DEPTH	SAMPLES	AD TIME	BLOW SPACES	RECOVERY	INCHES				S U Y S M T S F		REMARKS
H	L E E	P T M	O N	E	R Y				S O L		
19.5	110750 04/13/93 10:45	12 14 49	12	VERY DENSE, BROWN, (10YR, 5/3), POORLY GRADED SAND WITH SOME GRAVEL, DRY				SP	N/A	PID=2 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm	
21.0	04/13/93 10:45	N/A	N/A	NO SAMPLES TAKEN. SAMPLES TO BE TAKEN EVERY 5' STARTING AT 25.0'.				N/A	N/A		
25.0	110751 04/13/93 14:35	17 43 50	10	VERY DENSE, BROWN, (10YR, 5/3), POORLY GRADED, SAND WITH SOME GRAVEL, DRY				SP	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40$ cpm	
30.0	110752 04/13/93 14:55	17 32 50	9	VERY DENSE, LIGHT OLIVE BROWN, (2.5Y, 5/6) WELL GRADED SAND WITH FEW PEBBLES, DRY				SW	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm	
35.0	110753 04/13/93 15:30	17 23 28	11	VERY DENSE, DARK YELLOWISH BROWN, (10YR, 4/4), WELL GRADED, SAND WITH FEW PEBBLES, DRY				SW	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=70$ cpm	
40.0	110754 04/13/93 16:05	14 22 29	9	VERY DENSE, DARK YELLOWISH BROWN, (10YR, 4/4), POORLY GRADED, SAND WITH PEBBLES, DRY				SP	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm	
45.0	110755 04/15/93 09:32	15 50	N/A	VERY DENSE, PALE BROWN, (10YR, 6/3), POORLY GRADED SAND WITH MUCH PEA GRAVEL, MOIST				SP	N/A	PID=1 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm	
50.0	110756 04/15/93 10:15	29 36 50	16	VERY DENSE, PALE BROWN, (10YR, 6/3), POORLY GRADED, SAND WITH PEA GRAVEL, MOIST				SP	N/A	PID=1 ppm $\alpha=0$ ppm $\beta\Gamma=70$ cpm	
51.5	110757 04/15/93 13:40	38 50	8	VERY DENSE, YELLOWISH BROWN, (10YR, 5/4), POORLY GRADED, SAND WITH PEA GRAVEL, MOIST				SP	N/A	PID=1 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm	
53.0	110758 04/15/93 14:00	12 28 23	14	VERY DENSE, DARK YELLOWISH BROWN, (10YR, 4/4), POORLY GRADED, SAND WITH PEA GRAVEL, MOIST				SP	N/A	PID=4 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm	
54.5	110759 04/15/93 14:45	13 25 25	12	VERY DENSE, DARK YELLOWISH BROWN, (10YR, 4/4), POORLY GRADED, SAND WITH PEA GRAVEL, MOIST				SP	N/A	PID=2 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm	
56.0	110760 04/16/93 08:55	6 14 18	11	DENSE, DARK YELLOWISH BROWN, (10YR, 4/4), POORLY GRADED, SAND WITH PEA GRAVEL, WET				SP	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm	
57.5	110761 04/16/93 09:15	9 23 27	15	VERY DENSE, OLIVE BROWN, (2.5Y, 4/3), WELL GRADED SAND WITH PEA GRAVEL, MOIST				SW	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm	
59.0											

NOTES:

Driller: DAVE NEWMAN

SAA = Same as Above
 PID = Photoionization Detector
 N/A = Not Applicable

January 21, 1995

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02/02/94 17:03

PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION								
BORING NUMBER: 2943				COORDINATES: NORTH 477474.62 EAST 1379635.87								
GROUND ELEVATION: 573.5				GWL: Depth 54 Date/Time 16-Apr-93 12:55								
ENGINEER/GEOLOGIST: KEN GEIGER				Depth 51.6 Date/Time 21-Apr-93 08:00								
DRILLING METHOD: CABLE TOOL												
DEPTH	SAMPLE	DATA	BLOW	SAFETY	RECOVERY	INCHES	SOL	TFS	REMARKS			
59.0 60.5	110762 04/16/93 09:50	7 9 18		13	MEDIUM DENSE, OLIVE BROWN, (2.5Y, 4/3), WELL GRADED, SAND WITH PEA GRAVEL, MOIST			SW	N/A	PID=0 ppm $\alpha=0$ ppm BT=60 cpm		
60.5 62.0	110763 04/16/93 10:05	5 6 17		12	MEDIUM DENSE, DARK OLIVE BROWN, (2.5Y, 3/3), POORLY GRADED SAND WITH PEA GRAVEL, MOIST			SP	N/A	PID=0 ppm $\alpha=0$ ppm BT=60 cpm		
62.0 63.5	110764 04/16/93 10:25	6 14 20		18	DENSE, LIGHT OLIVE BROWN, (2.5Y, 5/4), POORLY GRADED, SAND WITH PEA GRAVEL, MOIST			SP	N/A	PID=0 ppm $\alpha=0$ ppm BT=60 cpm		
63.5 65.0	110765 04/16/93 13:30	8 15 24		18	DENSE, LIGHT OLIVE BROWN, (2.5Y, 5/4), WELL GRADED, SAND WITH PEA GRAVEL, MOIST			SW	N/A	PID=0 ppm $\alpha=0$ ppm BT=60 cpm		
NOTES:									Driller: DAVE NEWMAN			
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable												

001224

F-18-146

02/02/94 17:03

PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION										
BORING NUMBER: 2944					COORDINATES: NORTH 477514.06 EAST 1379493.03										
GROUND ELEVATION: 574.1					GWL: Depth	Date/Time			DATE STARTED: 23-JUN-93						
ENGINEER/GEOLOGIST: D. O'BRIEN					Depth	Date/Time			DATE COMPLETE: 23-JUN-93						
DRILLING METHOD: CABLE TOOL															
D E P T H	S A M P L E	S A M P L E	B L O W S O N	R E C O V E R Y	I N C H E S		S U S M C B S O L	T S F	REMARKS						
1.5	113741 06/08/93 09:35	25 7	12	VERY STIFF, (2.5Y, 5/6) LIGHT OLIVE BROWN, GRAVELLY CLAY, NO PLASTICITY, DRY					CL	2.75	PID=0 ppm BT=60 cpm				
1.5 3.0	113742 06/08/93 09:40	88 88 8	8	HARD, (2.5Y, 6/4) LIGHT YELLOWISH BROWN, GRAVELLY CLAY, NO PLASTICITY, DRY					CL	4	PID=0 ppm BT=60 cpm				
3.0 4.5	113743 06/08/93 09:45	812 13	15	HARD, (2.5Y, 6/2), LIGHT BROWNISH GRAY, GRAVELLY CLAY, NO PLASTICITY, DRY					CL	4.5	PID=0 ppm BT=40 cpm				
4.5 6.0	113744 06/08/93 09:50	1217 19	15	VERY STIFF, (5Y, 4/2) OLIVE GRAY SILTY CLAY WITH TRACE GRAVEL, NO PLASTICITY, DRY					CL	3.5	PID=0 ppm BT=60 cpm				
6.0 7.5	113745 06/08/93 09:55	2017 15	15	VERY STIFF, (5Y, 5/3), OLIVE, SANDY GRAVELLY CLAY, NO PLASTICITY, SLIGHTLY MOIST					CL	3.5	PID=0 ppm BT=40 cpm				
7.5 9.0	06/08/93 10:00	108 9	0	NO RECOVERY					N/A	N/A					
9.0 10.5	113746 06/08/93 14:30	1012 26	15	HARD, (2.5Y, 5/2) GRAYISH BROWN, GRAVELLY CLAY, NO PLASTICITY, DRY					CL	4.5	PID=0 ppm BT=60 cpm				
10.5 12.0	113747 06/08/93 14:50	3030 25	8	VERY STIFF, SAA					CL	3.5	PID=0 ppm BT=60 cpm				
12.0 13.5	113748 06/08/93 16:10	1623 25	18	HARD, (2.5Y, 6/1) GRAY, GRAVELLY CLAY, NO PLASTICITY, DRY					CL	4.5	PID=0 ppm BT=40 cpm				
13.5 15.0	113749 06/08/93 16:20	3223 32	15	HARD, (2.5Y, 5/6) LIGHT OLIVE BROWN, GRAVELLY CLAY, NO PLASTICITY, DRY					CL	4.5	PID=0 ppm BT=40 cpm				
15.0 16.5	113750 06/09/93 13:50	1315 26	18	HARD, (2.5Y, 5/3) LIGHT OLIVE BROWN, GRAVELLY CLAY, NO PLASTICITY, DRY					CL	4.5	PID=0 ppm BT=40 cpm				
16.5 18.0	113751 06/09/93 14:00	3236 47	18	SAA					CL	4.5	PID=0 ppm BT=60 cpm				
18.0 19.5	113752 06/09/93 14:10	5050	12	VERY STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, GRAVELLY CLAY, NO PLASTICITY, DRY					CL	3.25	PID=0 ppm BT=60 cpm				
NOTES:															
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable															

02/02/94 17:03

PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 2946				COORDINATES: NORTH 477514.06 EAST 1379493.03			DATE: 23-JUN-93			
GROUND ELEVATION: 5' 1"				GWL: Depth	Date/Time		DATE STARTED: 23-JUN-93			
ENGINEER/GEOLOGIST: L. BRIEN				Depth	Date/Time		DATE COMPLETE: 23-JUN-93			
DRILLING METHOD: CABLE TOOL										
D E P T H	S A M P L E E	D A T E M E E	B L O W S P L E	S A M P L E N O E	R E C O V R E Y	I N C H E R E S	S U Y S M C B S O L	T S F	REMARKS	
19.5	113753	06/10/93	50	6	HARD, (2.5Y, 5/1) GRAY, GRAVELLY CLAY, NO PLASTICITY, DRY			CL	4.5	PID=0 ppm BT=60 cpm
21.0		09:25								
21.0	113754	06/10/93	50	4	SAA, VERY DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, MEDIUM TO COARSE SAND, POORLY GRADED, DRY			SP	N/A	PID=0 ppm BT=60 cpm
22.5		09:55								
25.0	113755	06/10/93	13	8	DENSE, (2.5Y, 5/6) LIGHT OLIVE BROWN, MEDIUM TO COARSE SAND, POORLY GRADED, DRY			SP	N/A	PID=0 ppm BT=60 cpm
26.5		13:30	25	20						
30.0	113755	06/10/93	9	5	SAA			SP	N/A	PID=0 ppm BT=60 cpm
31.5		14:30	14	16						
35.0	113755	06/10/93	7	7	SAA			SP	N/A	PID=0 ppm BT=40 cpm
36.5		16:30	18	20						
40.0	113755	06/11/93	3	10	VERY DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, SAND WITH GRAVEL, POORLY GRADED, SLIGHTLY MOIST			SP	N/A	PID=0 ppm BT=60 cpm
41.5		08:40	50							
45.0	113755	06/11/93	60	4	SAA			SP	N/A	PID=0 ppm BT=60 cpm
46.5		09:30								
50.0	113755	06/11/93	10	8	SAA, MOIST			SP	N/A	PID=0 ppm BT=40 cpm
51.5		10:30	31	46						
55.0	113761	06/11/93	7	6	MEDIUM DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, FINE SAND, POORLY GRADED, WET			SP	N/A	PID=0 ppm BT=60 cpm
56.5		13:45	16	15						
56.5	113762	06/11/93	10	10	DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, FINE SAND, POORLY GRADED, WET			SP	N/A	PID=0 ppm BT=60 cpm
58.0		13:55	21	19						
58.0	113763	06/14/93	9	18	DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, FINE SAND AND GRAVEL, POORLY GRADED, WET			SP	N/A	PID=0 ppm BT=60 cpm
59.5		10:45	18	23						
59.5	113764	06/14/93	12	15	SAA			SP	N/A	PID=0 ppm BT=60 cpm
61.0		13:45	20	27						
61.0	113765	06/14/93	10	12	SAA			SP	N/A	PID=0 ppm BT=60 cpm
62.5		13:55	15	16						
NOTES:										
<p style="text-align: center;">SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable</p>										

6500

02/02/94 17:03

PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 2944					COORDINATES: NORTH 477514.06 EAST 1379493.03 DATE: 23-JUN-93					
GROUND ELEVATION: 574.1					GWL: Depth		Date/Time		DATE STARTED: 23-JUN-93	
ENGINEER/GEOLOGIST: D. O'BRIEN					Depth		Date/Time		DATE COMPLETE: 23-JUN-93	
DRILLING METHOD: CABLE TOOL										
D E P T H	S A M P L E	D A T E E	T M E E	B L O W N	S A M P L E	R E C O V E R Y	I N C H E S	S U S C B S O L	T S F	REMARKS
62.5	113766	6		18	18	SAA		SP	N/A	PID=0 ppm BI=60 cpm
64.0	06/14/93 14:10	18		22						
64.0	113767	15		20	14	SAA		SP	N/A	PID=0 ppm BI=60 cpm
65.5	06/14/93 14:33	20		32						
65.5	06/14/93 14:45	23		35	0	NO RECOVERY		N/A	N/A	
67.0	35			35						
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 2945					COORDINATES: NORTH 477972.18 EAST 1379119.93 DATE:19-MAR-93				
GROUND ELEVATION: 566.7					GWL: Depth 43.5 Date/Time 02-Apr-93 08:30 DATE STARTED: 19-MAR-93				
ENGINEER/GEOLOGIST: KEN GEIGER					Depth 43.6 Date/Time 07-Apr-93 08:30 DATE COMPLETE: 07-APR-93				
DRILLING METHOD: CABLE TOOL									
D E P T H	S A M P L E	D A T E E E N	B L O W S E L O N	R A C M P V E R Y	I N C O H E S	S U Y S M C B S O L	T S F	REMARKS	
1.5	110237 03/19/93 09:50	2 8 10	8		SOFT, BROWN (10YR 4/3), SILTY SANDY CLAY WITH LIGHT YELLOWISH BROWN (2.5Y 6/4) MOTTLING, SOME GRAVEL + CONCRETE FRAGMENTS, MEDIUM PLASTICITY, SLIGHTLY MOIST	CL	.5	PID=0 ppm α =0 ppm BT=60 cpm	
1.5 3.0	110238 03/19/93 10:00	9 10 9	7		SOFT, BROWN (10YR 4/3), SILTY CLAY WITH SOME CONCRETE FRAGMENTS AND GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST	CL	.5	PID=0 ppm α =0 ppm BT=60 cpm	
3.0 4.5	110239 03/19/93 10:05	4 7 7	5		STIFF, BROWN (10YR 4/3), SILTY SANDY CLAY WITH SOME CONCRETE FRAGMENTS AND GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST	CL	1.5	PID=0 ppm α =0 ppm BT=60-80 cpm	
4.5 6.0	110240 03/19/93 10:15	45 40 16	4		STIFF, BROWN (10YR 4/3), SILTY SANDY CLAY WITH CONCRETE FRAGMENTS AND GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST	CL	1.5	PID=0 ppm α =0 ppm BT=60-80 cpm	
6.0 7.5	110241 03/19/93 10:25	32 30 28	4		STIFF, BROWN (10YR 4/3), SANDY CLAY WITH CONCRETE FRAGMENTS AND SOME GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST	CL	1	PID=0 ppm α =0 ppm BT=80 cpm	
7.5 9.0	110242 03/19/93 10:30	31 28 16	5		SAME AS ABOVE	CL	1.5	PID=0 ppm α =0 ppm BT=80 cpm	
9.0 10.5	110243 03/19/93 10:35	16 21 20	18		STIFF, DARK GRAYISH BROWN (10YR 4/2), SILTY CLAY WITH A TRACE OF GRAVEL, LOW PLASTICITY, SLIGHTLY MOIST	CL	1.5	PID=0 ppm α =0 ppm BT=60-80 cpm	
10.5 12.0	110245 03/24/93 16:45	8 9 10	13		STIFF, DARK BROWN (10YR 3/3), SILTY CLAY WITH A TRACE OF GRAVEL, LOW PLASTICITY, SLIGHTLY MOIST	CL	1.5	PID=1-2 ppm α =0 ppm BT=60-80 cpm	
12.0 13.5	110246 03/25/93 09:00	9 13 17	14		STIFF, DARK BROWN (10YR 3/3), SILTY CLAY WITH A TRACE OF GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST	CL	1.75	PID=0 ppm α =0 ppm BT=80-100 cpm	
13.5 15.0	110247 03/25/93 09:25	34 17 10	13		VERY STIFF, DARK BROWN (10YR 3/3), SILTY CLAY WITH A TRACE OF GRAVEL AND SAND, MEDIUM PLASTICITY, SLIGHTLY MOIST	CL	3	PID=0 ppm α =0 ppm BT=80-100 cpm	
15.0 16.5	110248 03/25/93 10:05	17 33 50	13		STIFF, BROWN (10YR 4/3), SILTY CLAY WITH SOME GRAVEL AND SAND, MEDIUM PLASTICITY, SLIGHTLY MOIST	CL	1.5	PID=0 ppm α =0 ppm BT=80-100 cpm	
16.5 18.0	110249 03/25/93 10:40	9 13 17	12		STIFF, BROWN (10YR 5/3), SILTY SANDY CLAY WITH SOME GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST	CL	1.5	PID=0 ppm α =0 ppm BT=60-80 cpm	
18.0 19.5	110250 03/25/93 14:05	17 4 3	12		STIFF, BROWN (10YR 5/3), SILTY SANDY CLAY WITH SOME GRAVEL, MEDIUM PLASTICITY, MOIST	CL	1.0	PID=0 ppm α =0 ppm BT=60-80 cpm	
NOTES:									
Boring Contractor: PENNSYLVANIA DRILLING Driller: DAVE NEWMAN, JEFF BENTLEY									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION							
BORING NUMBER: 2945					COORDINATES: NORTH 477972.18 EAST 1379119.93 DATE: 19-MAR-93							
GROUND ELEVATION: 566.7					GWL: Depth 43.5 Date/Time 02-Apr-93 08:30 DATE STARTED: 19-MAR-93							
ENGINEER/GEOLOGIST: KEN GEIGER					Depth 43.6 Date/Time 07-Apr-93 08:30 DATE COMPLETE: 07-APR-93							
DRILLING METHOD: CABLE TOOL												
D E P T H	S A M P L E E	D A I T E E	T M E S	B L O O N	S A M P L E R E C O V E R Y	R E C O V E R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS	
19.5 21.0	110251 03/25/93 14:20	3 4 3	10	LOOSE, DARK YELLOWISH BROWN (10YR 4/4), POORLY GRADED SAND WITH SOME CLAY, SLIGHTLY MOIST					SP	N/A	PID=0 ppm $\alpha=0$ ppm BT=60-80 cpm	
21.0 25.0	03/25/93 14:20	N/A	N/A	NO SAMPLE TAKEN. SAMPLES TO BE TAKEN EVERY 5 FT STARTING AT 25.0 FT					N/A	N/A		
25.0 27.0	110252 03/29/93 14:30	48 49 50	13	VERY DENSE, DARK YELLOWISH BROWN (10YR 4/4), WELL GRADED SAND WITH SOME GRAVEL, DRY					SW	N/A	PID=0 ppm $\alpha=0$ ppm BT=60 cpm	
30.0 21.5	110254 03/29/93 16:15	9 14 21	10	DENSE, DARK YELLOWISH BROWN (10YR 4/4), POORLY GRADED GRAVELLY SAND WITH ROCK FRAGMENTS, DRY					SP	N/A	PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm	
35.0 36.5	110255 03/30/93 10:40	41 50	7	VERY DENSE, DARK YELLOWISH BROWN (10YR 4/4), POORLY GRADED SAND WITH SOME GRAVEL, SLIGHTLY MOIST					SP	N/A	PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm	
40.0 41.5	110256 03/03/93 14:05	25 41 50	12	VERY DENSE, BROWN (10YR 5/3), POORLY GRADED GRAVELLY SAND, DRY					SP	N/A	PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm	
41.5 43.0	110257 03/30/93 15:25	50	4	VERY DENSE, BROWN (10YR 5/3), POORLY GRADED GRAVELLY SAND, SLIGHTLY MOIST					SP	N/A	PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm	
43.0 44.5	110258 03/30/93 15:50	32 40 50	13	VERY DENSE, BROWN (10YR 5/3), WELL GRADED SAND WITH SOME GRAVEL, WET					SW	N/A	PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm	
44.5 46.0	110259 03/30/93 16:40	10 13 31	16	DENSE, BROWN (10YR 5/3), POORLY GRADED SAND WITH SOME GRAVEL, WET					SP	N/A	PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm	
46.0 47.5	110260 03/30/93 16:55	12 14 17	12	DENSE, BROWN (10YR 4/3) POORLY GRADED SAND WITH SOME GRAVEL, WET					SP	N/A	PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm	
47.5 49.0	110261 03/30/93 08:45	7 14 21	13	DENSE, BROWN (10YR 4/3), POORLY GRADED SAND WITH SOME GRAVEL, WET					SP	N/A	PID=0 ppm $\alpha=0$ ppm BT=60 cpm	
49.0 50.5	110262 03/31/93 09:00	4 13 14	12	MEDIUM DENSE, BROWN (10YR 4/3), POORLY GRADED SAND WITH SOME GRAVEL, WET					SP	N/A	PID=0 ppm $\alpha=0$ ppm BT=60 cpm	
50.5 52.0	110263 03/31/93 09:30	8 14 12	12	MEDIUM DENSE, BROWN (10YR 4/3), POORLY GRADED SAND WITH SOME GRAVEL, WET					SP	N/A	PID=0 ppm $\alpha=0$ ppm BT=60 cpm	
NOTES:										Boring Contractor: PENNSYLVANIA DRILLING Driller: DAVE NEWMAN, JEFF BENTLEY		
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable		

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 294:					COORDINATES: NORTH 477972.18 EAST 1379119.93			DATE: 19-MAR-93		
GROUND ELEVATION: 566.7					GWL: Depth 43.5 Date/Time 02-Apr-93 08:30			DATE STARTED: 19-MAR-93		
ENGINEER/GEOLOGIST: KEN GEIGER					Depth 43.6 Date/Time 07-Apr-93 08:30			DATE COMPLETE: 07-APR-93		
DRILLING METHOD: CABLE TOOL										
D E P T H	S A M P L E	D A T E E E	T I M E S P E E O N	B L O W M S P L E R Y	R E A C H E E R Y	I N C H E S	S U S C B S O L	T S F	REMARKS	
52.0	110264	6			MEDIUM DENSE, BROWN (10YR 4/3), POORLY GRADED SAND WITH SOME GRAVEL, WET		SP	N/A	PID=0 ppm α =0 ppm BT=60 cpm	
53.5	03/31/93	9	14	8	MEDIUM DENSE, BROWN (10YR 4/3), POORLY GRADED SAND WITH SOME GRAVEL, WET		SP	N/A	PID=0 ppm α =0 ppm BT=40 cpm	
53.5	110265	11			MEDIUM DENSE, BROWN (10YR 4/3), POORLY GRADED SAND WITH SOME GRAVEL, WET		SP	N/A	PID=0 ppm α =0 ppm BT=60 cpm	
55.0	03/31/93	14	18	10						
NOTES:										Boring Contractor: PENNSYLVANIA DRILLING Driller: DAVE NEWMAN, JEFF BENTLEY
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION											
BORING NUMBER: 2954					COORDINATES: NORTH 477804.29 EAST 1379406.47			DATE: 21-MAY-93								
GROUND ELEVATION: 576					GWL: Depth 53	Date/Time 28-May-93 08:30	DATE STARTED: 21-MAY-93									
ENGINEER/GEOLOGIST: KEN GEIGER					Depth	Date/Time	DATE COMPLETE: 07-JUN-93									
DRILLING METHOD: CABLE TOOL																
DEPTH	S A D T M P L E E	D T M I W S L E	B L O R E N	R E C O V P L E	I N C H E S Y		S Y U S M C B S O L	T S F	REMARKS							
1.5	113192 05/21/93 09:50	2 5 9	9	STIFF, DARK YELLOWISH BROWN, (10YR, 4/4) SILTY CLAY WITH SOME GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST					CL	1.5	PID=3 ppm $\alpha=0$ ppm BT=40-60 cpm					
1.5	113193 05/21/93 09:55	6 11 15	6	VERY STIFF, DARK YELLOWISH BROWN, (10YR, 3/6), SILTY CLAY WITH SOME GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST					CL	3.0	PID=1 ppm $\alpha=0$ ppm BT=40-60 cpm					
3.0	113194 05/21/93 10:00	10 16 15	7	STIFF, OLIVE BROWN, (2.5Y, 4/4), SILTY CLAY WITH SOME GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST					CL	1.5	PID=1 ppm $\alpha=0$ ppm BT=40-60 cpm					
4.5	113195 05/21/93 10:05	10 19 16	13	VERY STIFF, OLIVE BROWN, (2.5Y, 4/4), SILTY CLAY WITH SOME GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST					CL	2.25	PID=1 ppm $\alpha=0$ ppm BT=40-60 cpm					
6.0	113196 05/21/93 10:10	13 13 15	10	STIFF, OLIVE BROWN (2.5Y, 4/4) SILTY CLAY WITH A TRACE OF GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST					CL	1.5	PID=1 ppm $\alpha=0$ ppm BT=40-60 cpm					
7.5	113197 05/21/93 10:15	12 10 8	12	VERY SOFT, OLIVE BROWN, (2.5Y, 4/3), SILTY CLAY WITH A TRACE OF GRAVEL, MEDIUM PLASTICITY, MOIST					CL	.25	PID=1 ppm $\alpha=0$ ppm BT=40-60 cpm					
9.0	113198 05/21/93 10:20	8 9 10	18	STIFF, OLIVE BROWN, (2.5Y, 4/4), SILTY CLAY WITH A TRACE OF GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST					CL	2.0	PID=1 ppm $\alpha=0$ ppm BT=40-60 cpm					
10.5	113199 05/21/93 10:25	9 9 9	18	MEDIUM STIFF, OLIVE BROWN, (2.5Y, 4/4), SILTY CLAY WITH A TRACE OF GRAVEL, MEDIUM PLASTICITY, MOIST					CL	.75	PID=1 ppm $\alpha=0$ ppm BT=60-80 cpm					
12.0	113200 05/21/93 10:30	9 10 15	18	SOFT, OLIVE BROWN, (2.5Y, 4/3), SANDY SILTY CLAY WITH SOME GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST					CL	.5	PID=1 ppm $\alpha=0$ ppm BT=40-60 cpm					
13.5	113201 05/24/93 10:20	1 5 16	12	STIFF, OLIVE BROWN, (2.5Y, 4/4), SILTY SAND, CLAY WITH SOME GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST					CL	2	PID=.7 ppm $\alpha=0$ ppm BT=60 cpm					
15.0	113202 05/24/93 10:30	8 18 18	7	STIFF, LIGHT OLIVE BROWN, (2.5Y, 5/4), SANDY, SILTY CLAY WITH A TRACE OF GRAVEL, LOW PLASTICITY, SLIGHTLY MOIST					CL	1.0	PID=.9 ppm $\alpha=0$ ppm BT=40-60 cpm					
16.5	113203 05/24/93 10:45	9 14 25	14	HARD, LIGHT OLIVE BROWN, (2.5Y, 5/4), SANDY, SILTY CLAY WITH SOME GRAVEL, LOW PLASTICITY, SLIGHTLY MOIST					CL	4	PID=.9 ppm $\alpha=0$ ppm BT=40-60 cpm					
18.0	113204 05/24/93 14:00	14 20 23	13	VERY STIFF, LIGHT OLIVE BROWN, (2.5Y, 5/4), SILTY CLAY WITH A TRACE OF GRAVEL AND SAND, LOW PLASTICITY, SLIGHTLY MOIST					CL	3.5	PID=.9 ppm $\alpha=0$ ppm BT=40-60 cpm					
NOTES:																
BACKGROUND: 5/21/93 HNU=.8 PPM, BETA GAMMA=40-60 CPM, ALPHA=0 CPM, 5/24/93 HNU=.7 PPM, BETA GAMMA=40-60 CPM, ALPHA=0 CPM, 5/25/93 HNU=0 PPM, BETA GAMMA=40-60 CPM, ALPHA=0 CPM, 5/25/93 HNU=1.0 PPM, BETA GAMMA=40-60 CPM, ALPHA=0 CPM										Boring Contractor: PENNSYLVANIA DRILLING Driller: DAVE NEWMAN						
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable																

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FEMP-OU02-6 FINAL

January 21, 1995

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 2954					COORDINATES: NORTH 477804.29 EAST 1379406.47					
GROUND ELEVATION: 576					GWL: Depth 53	Date/Time 28-May-93 08:30	DATE STARTED: 21-MAY-93			
ENGINEER/GEOLOGIST: KEN GEIGER					Depth	Date/Time	DATE COMPLETE: 07-JUN-93			
DRILLING METHOD: CABLE TOOL										
D E P T H	S A M P L E	D A T E E	B L O W S L E	T R A M P L E	R E C O V E R Y	I N C H E S	S U S M C B S O L	T S F	REMARKS	
19.5 21.0	113205 05/25/93 10:00	5 10 15	12	11	VERY STIFF, OLIVE BROWN, (2.5Y, 4/4), SILTY CLAY WITH A TRACE OF GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST			CL	2.5	PID=.4 ppm $\alpha=0$ ppm BT=40-60 cpm
21.0 22.5	113206 05/25/93 10:30	11 27 29	13	11 27 29	HARD, DARK GRAY, (2.5Y, 4/1), SILTY CLAY WITH SOME GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST			CL	4	PID=.3 ppm $\alpha=0$ ppm BT=40-60 cpm
22.5 24.0	113207 05/25/93 14:45	10 18 32	5	10 18 32	SOFT, DARK GRAY, (2.5Y, 4/1), SANDY SILTY CLAY WITH SOME GRAVEL, MEDIUM PLASTICITY, SLIGHTLY MOIST			CL	.25	PID=.2 ppm $\alpha=0$ ppm BT=40-60 cpm
24.0 25.5	113208 05/25/93 15:10	38 50	7	12	VERY DENSE, BROWN, (10YR, 4/3), POORLY GRADED SAND WITH SOME GRAVEL, SLIGHTLY MOIST			SP	N/A	PID=.3 ppm $\alpha=0$ ppm BT=40-60 cpm
30.0 31.5	113209 05/25/93 15:35	12 18 27	7	12 18 27	DENSE, BROWN, (10YR, 4/3), POORLY GRADED SAND WITH SOME GRAVEL, DRY			SP	N/A	PID=.3 ppm $\alpha=0$ ppm BT=40-60 cpm
35.0 36.5	113210 05/26/93 10:10	50	6	12	VERY DENSE, BROWN, (10YR, 4/3), POORLY GRADED SAND WITH SOME GRAVEL, DRY			SP	N/A	PID=1.1 ppm $\alpha=0$ ppm BT=40-60 cpm
40.0 41.5	113211 05/26/93 10:30	22 42 50	12	12	VERY DENSE, BROWN, (10YR, 4/3), WELL GRADED SAND WITH SOME GRAVEL, DRY			SW	N/A	PID=1.4 ppm $\alpha=0$ ppm BT=40-60 cpm
45.0 46.5	113212 05/26/93 14:25	50	4	12	VERY DENSE, BROWN, (10YR, 4/3), POORLY GRADED GRAVELLY SAND WITH SOME SILT AND ROCK FRAGMENTS, SLIGHTLY MOIST			SP	N/A	PID=1.0 ppm $\alpha=0$ ppm BT=40-60 cpm
46.5 48.0	113213 05/26/93 14:55	17 50	8	12	VERY DENSE, BROWN, (10YR, 4/3), POORLY GRADED SAND WITH SOME GRAVEL, SLIGHTLY MOIST			SP	N/A	PID=1.4 ppm $\alpha=0$ ppm BT=40-60 cpm
48.0 49.5	113214 05/27/93 09:00	21 50	7	12	VERY DENSE, DARK YELLOWISH BROWN, (10YR, 4/6), POORLY GRADED GRAVELLY SAND, SLIGHTLY MOIST			SP	N/A	PID=.4 ppm $\alpha=0$ ppm BT=40-60 cpm
49.5 51.0	113215 05/27/93 10:15	50	4	12	VERY DENSE, DARK YELLOWISH BROWN, (10YR, 4/6), POORLY GRADED GRAVELLY SAND, WET			SP	N/A	PID=.5 ppm $\alpha=0$ ppm BT=40-60 cpm
51.0 52.5	113216 05/27/93 10:45	40 50	8	12	VERY DENSE, DARK YELLOWISH BROWN, (10YR, 4/6), POORLY GRADED GRAVELLY SAND, WET			SP	N/A	PID=.5 ppm $\alpha=0$ ppm BT=40-60 cpm
52.5 54.0	113217 05/27/93 14:30	9 23 48	18	12	VERY DENSE, BROWN, (10YR, 4/3), WELL GRADED SAND WITH SOME GRAVEL, WET			SW	N/A	PID=.5 ppm $\alpha=0$ ppm BT=40-60 cpm
NOTES: BACKGROUND: 5/21/93 HNU=.8 PPM, BETA GAMMA=40-60 CPM, $\alpha=0$ CPM, 5/24/93 HNU=.7 PPM, BETA GAMMA=40-60 CPM, $\alpha=0$ CPM, 5/25/93 HNU=0 PPM, BETA GAMMA=40-60 CPM, $\alpha=0$ CPM, 5/25/93 HNU=1.0 PPM, BETA GAMMA=40-60 CPM, $\alpha=0$ CPM										Boring Contractor: PENNSYLVANIA DRILLING Driller: DAVE NEWMAN SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

02/02/94 17:03

PROJECT NUMBER: 20.03.05						PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 2954						COORDINATES: NORTH 477804.29 EAST 1379406.47					
GROUND ELEVATION: 576						GWL: Depth 53 Date/Time 28-May-93 08:30					
ENGINEER/GEOLOGIST: KEN GEIGER						Depth Date/Time					
DRILLING METHOD: CABLE TOOL											
D E P T H	S A M P T H E	D M A P T L E	T M E E	B D O S L	L S A P L E	R E C O V E R Y	I N C H E S		S U S C B S O L	T S F	REMARKS
54.0	113218 05/27/93 14:40	3 13	12						SW	N/A	PID=.5 ppm $\alpha=0$ ppm $\beta\gamma=40-60$ cpm
55.5	113219 05/27/93 15:00	8 16 21	13						SW	N/A	PID=.6 ppm $\alpha=0$ ppm $\beta\gamma=40-60$ cpm
57.0	113220 05/27/93 15:10	6 6 6	18						SW	N/A	PID=.6 ppm $\alpha=0$ ppm $\beta\gamma=40-60$ cpm
58.5	113221 05/27/93 15:20	3 6 10	14						SP	N/A	PID=.6 ppm $\alpha=0$ ppm $\beta\gamma=40-60$ cpm
60.0	05/27/93 15:20	N/A	N/A						N/A	N/A	
65.0											
NOTES: BACKGROUND: 5/21/93 HNU=.8 PPM, BETA GAMMA=40-60 CPM, ALPHA=0 CPM, 5/24/93 HNU=.7 PPM, BETA GAMMA=40-60 CPM, ALPHA=0 CPM, 5/25/93 HNU=0 PPM, BETA GAMMA=40-60 CPM, ALPHA=0 CPM, 5/25/93 HNU=1.0 PPM, BETA GAMMA=40-60 CPM, ALPHA=0 CPM											
Boring Contractor: PENNSYLVANIA DRILLING Driller: DAVE NEWMAN SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable											

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PROJECT NUMBER: 602 3.2					PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION										
BORING NUMBER: 3044					COORDINATES: NORTH 477773.57 EAST 1378162.79										
GROUND ELEVATION: 571.8					GWL: Depth	Date/Time		DATE STARTED: 01-MAR-88							
ENGINEER/GEOLOGIST: T. SULLIVAN					Depth	Date/Time		DATE COMPLETE: 07-MAR-88							
DRILLING METHOD: CABLE-TOOL DRILLING															
D E P T H	S A M P L E	D A T E E E N O N	T I M E S P L E R E V E Y	B L O W S A M P L E R E V E Y	R E C O V E R E V E Y	I N C H E S H E R E V E Y	U S S C B S O L	T S F	REMARKS						
1.5	008083 03/01/88 10:10	2 3 4	13	STIFF, BROWN 10YR 4/2 ORGANIC RICH SILT AND CLAY, ABUNDANT ROOTS, DRY. VERY STIFF, YELLOW-BROWN 10YR 4/4 CLAY, TRACE ORGANIC MATERIAL. ML					ML CL CL	0.5 1.5 2.7	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=100$ cpm				
1.5 3.0	008084 03/01/88 10:10	2 3 4	14	VERY STIFF, YELLOW-BROWN 10YR 4/4 CLAY, SLIGHTLY MOTTLED, DRY.					CL	2.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm				
3.0 4.5	008085 03/01/88 10:35	2 3 4 5 6 7	15	VERY STIFF, YELLOW-BROWN 10YR 4/4 CLAY, TRACE SILT, SLIGHTLY MOTTLED, 1" SILT LENS AT 4.3', DRY.					CL	2.75	PID=0 ppm $\alpha=4$ ppm $\beta\Gamma=140$ cpm				
4.5 6.0	008086 03/01/88 10:40	7 10 9	18	HARD, YELLOW-BROWN 10YR 5/4 CLAY, SLIGHTLY MOTTLED, TRACE SILT IN BOTTOM 2", DRY.					CL	4.25	PID=0 ppm $\alpha=2$ ppm $\beta\Gamma=120$ cpm				
6.0 7.5	008087 03/01/88 10:42	10 11 11	16	VERY STIFF, YELLOW-BROWN 10YR 5/4 MOTTLED WITH LIGHT GRAY 10YR 6/3 CLAY, TRACE SILT, DRY. VERY STIFF, YELLOW-BROWN 10YR 6/4 CLAY WITH SOME FINE GRAVEL, TRACE SILT, DRY.					CL CL	3.0 3.2	PID=0 ppm $\alpha=2$ ppm $\beta\Gamma=100$ cpm				
7.5 9.0	008090 03/01/88 14:30	N/A	N/A						N/A	N/A					
9.0 10.5	008091 03/01/88 14:50	3 11 13	10	MED. DENSE, YELLOW-BROWN 10YR 4/4 SAND, SOME SILT, SOME CLAY, TRACE GRAVEL, MOIST, SANDY CLAY LESS AT 9.6' AND 10.0', 1" THICK. MED. DENSE YELLOW-BROWN 10YR 4/4 SAND, SOME SILT AND CLAY, TRACE FINE GRAVEL, MOIST.					SM SM	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm				
10.5 12.0	008092 03/01/88 15:15	10 8 14	6	VERY STIFF, YELLOW-BROWN 10YR 5/4 CLAY, TRACE GRAVEL, DRY.					CL	2.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm				
12.0 13.5	008093 03/01/88 15:25	4 9 9	11	MED. STIFF, GRAY 10YR 4/1 SANDY CLAY, SOME SILT, MOIST, BOTTOM 3" VERY SANDY.					CL	1.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm				
13.5 15.0	008094 03/01/88 15:40	4 4 3	1	GRAY-BROWN 10YR 4/3 SANDY CLAY, TRACE GRAVEL, SOME SILT, MOIST.					CL	N/A	PID=0 ppm $\alpha=2$ ppm $\beta\Gamma=80$ cpm				
15.0 16.5	008095 03/01/88 16:00	5 12 13	1	GRAY, 10 YR 4/1 CLAY, SOME SILT AND SAND, TRACE GRAVEL, MOIST.					CL	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm				
16.5 18.0	008096 03/01/88 16:15	3 2 5	6	STIFF, GRAY 10 YR 1 CLAY, TRACE SILT, TRACE GRAVEL, MOIST.					CL	1.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm				
NOTES:															
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable															

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PROJECT NUMBER: 602 3.2					PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION						
BORING NUMBER: 3044					COORDINATES: NORTH 477773.57 EAST 1378162.79						
GROUND ELEVATION: 571.8					GWL: Depth	Date/Time	DATE STARTED: 01-MAR-88				
ENGINEER/GEOLOGIST: T. SULLIVAN					Depth	Date/Time	DATE COMPLETE: 07-MAR-88				
DRILLING METHOD: CABLE-TOOL DRILLING											
D E P T H	S A M P L E	D A T E E E	T I M E E E	B L O W S O N	S A M P L E	R E C O V E R Y	I N C H E S	S U Y S M C B S O L	T S F	REMARKS	
18.0 19.5	008097 03/01/88 16:30	7 26 26	5	VERY DENSE, GRAY-BROWN 10YR 5/2 COARSE SAND, SOME GRAVEL, SOME SILT AND CLAY, MOIST. HARD, GRAY-BROWN 10YR 5/2 CLAY, SOME COARSE GRAVEL, TRACE SILT, DRY.					SM CL	N/A >5	PID=0 ppm α =0 ppm BI=80 cpm
19.5 21.0	008098 03/01/88 17:25	15 25 28	8	HARD, GRAY-GREEN 5Y 3/2 CLAY, TRACE SILT, TRACE GRAVEL, DRY.					CL	>5	PID=0 ppm α =2 ppm BI=100 cpm
21.0 22.5	008099 03/02/88 08:05	8 15 21	13	DENSE, YELLOW-BROWN 10YR 4/4 FINE TO MEDIUM SAND, TRACE SILT, DRY.					SM	N/A	PID=0 ppm α =0 ppm BI=80 cpm
22.5 24.0	008100 03/02/88 08:20	9 19 23	14	DENSE, YELLOW-BROWN 10YR 4/4 FINE GRAINED SAND, TRACE SILT, DRY.					SM	N/A	PID=0 ppm α =2 ppm BI=60 cpm
24.0 25.5	008101 03/02/88 08:50	9 10 18	11	MED. DENSE, YELLOW-BROWN 10YR 5/4 VERY FINE SAND, SOME SILT, DRY.					SM	N/A	PID=0 ppm α =2 ppm BI=100 cpm
30.0 31.5	008102 03/02/88 10:35	6 11 13	9	MED. DENSE, GRAY 10YR 5/3 FINE SAND, SOME SILT, DRY.					SM	N/A	PID=0 ppm α =2 ppm BI=100 cpm
35.0 36.5	008103 03/02/88 11:00	18 17 22	12	DENSE, TAN 10YR 5/4 VERY FINE SAND, SOME SILT, DRY, GRAVEL IN BOTTOM 2".					SM	N/A	PID=0 ppm α =2 ppm BI=100 cpm
40.0 41.5	008104 03/02/88 13:35	14 22 30	11	VERY DENSE, TAN 10YR 5/4 MED. TO COARSE SAND, TRACE SILT, SOME GRAVEL, DRY.					SM	N/A	PID=0 ppm α =2 ppm BI=80 cpm
50.0 51.5	008246 03/02/88 15:20	11 16 18	13	DENSE, GRAY-BROWN 10YR 4/3, MEDIUM-COARSE SAND, TRACE SILT, TRACE FINE GRAVEL, WET.					SM	N/A	PID=0 ppm α =0 ppm BI=100 cpm
55.0 56.5	008247 03/02/88 15:45	8 8 11	8						SM	N/A	PID=0 ppm α =0 ppm BI=80 cpm
60.0 61.5	008248 03/05/88 10:10	5 12 21	13	DENSE, BROWN-GRAY 10YR 4/2 MEDIUM SAND, SOME SILT, TRACE FINE GRAVEL, WET.					SM	N/A	PID=0 ppm α =0 ppm BI=60 cpm
65.0 66.5	008249 03/02/88 13:10	5 12 14	13	MED. DENSE, BROWN-GRAY 10YR 4/2 MEDIUM SAND, SOME SILT, TRACE FINE TO COARSE GRAVEL, WET.					SM	N/A	PID=0 ppm α =0 ppm BI=80 cpm
70.0 71.5	008250 03/05/88 15:00	22 53 34	17	VERY DENSE, BROWN-GRAY 10YR 4/2 MEDIUM TO COARSE SAND, GRAVELLY, SOME SILT, WET. DENSE, BROWN-GRAY 10YR 4/2 COARSE SAND, GRAVELLY, SOME SILT, WET.					SW SW	N/A	PID=0 ppm α =2 ppm BI=100 cpm
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 602 3.2					PROJECT NAME: CRUZ RI PHASE I FIELD INVESTIGATION					
BORING NUMBER: 3044					COORDINATES: NORTH 477773.57 EAST 1378162.79			DATE: 01-MAR-88		
GROUND ELEVATION: 571.8					GWL: Depth	Date/Time		DATE STARTED: 01-MAR-88		
ENGINEER/GEOLOGIST: T. SULLIVAN					Depth	Date/Time		DATE COMPLETE: 07-MAR-88		
DRILLING METHOD: CABLE-TOOL DRILLING										
D E P T H	S A M P L E	D A T E E	B L O W S O N	T I M E E E	R E C O V E R Y	I N C H E R E S	S Y S M C B S O L	T S F	REMARKS	
75.0 76.5	008251 03/05/88 15:35	9 13	13 14	18	MED-DENSE, GRAY-BROWN 10YR, 4/3 MEDIUM SAND, TRACE SILT, WET.			SM	N/A	PID=0 ppm $\alpha=2$ ppm $\beta\Gamma=90$ cpm
80.0 81.5	008252 03/05/88 15:55	4 10	10 12	17	MED. DENSE, BROWN 10YR 4/2 FINE-MEDIUM SAND, SOME SILT, WET. MED. DENSE, BROWN 10YR 4/2 MEDIUM TO COARSE SAND, SOME COARSE GRAVEL, SOME SILT, WET.			SM SP	N/A N/A	PID=0 ppm $\alpha=2$ ppm $\beta\Gamma=80$ cpm
85.0 86.5	008253 03/05/88 17:25	12 24	24 24	18	DENSE, BROWN 10YR 4/2 FINE TO MEDIUM SAND, SOME SILT, WET. DENSE, BROWN 10YR 4/2 SANDY GRAVEL, MEDIUM TO COARSE SAND, SOME PEBBLES, SOME SILT, WET.			SM GP	N/A N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=100$ cpm
90.0 91.5	008254 03/06/88 08:25	5 6	6 7	11	MED-DENSE, BROWN, 10YR 4/2 FINE SAND, SOME SILT, UNIFORM GRAIN SIZE, WET. GRAVELLY LENS AT 90.1 TO 90.2 FT.			SM	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm
95.0 96.5	008255 03/06/88 10:30	15 22	22 24	16	DENSE, BROWN 10YR 3/3 VERY FINE SAND, WELL GRADED, SOME SILT, WET.			SM	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40$ cpm
100.0 101.5	008256 03/06/88 11:00	5 4	4 5	18	LOOSE, GRAY-BROWN 10YR 4/2 VERY FINE GRAINED SAND, SOME SILT, SOME CLAY, WET.			SM	N/A	PID=0 ppm $\alpha=2$ ppm $\beta\Gamma=60$ cpm
105.0 106.5	008257 03/06/88 13:35	2 3	3 4	16	LOOSE, GRAY 10YR 3/1 FINE SAND, SOME SILT, TRACE CLAY, WELL GRADED, WET.			SM	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
110.0 111.5	008258 03/06/88 14:50	5 9	9 13	16	MED-DENSE, GRAY 10YR 4/1, FINE SAND, SOME SILT, TRACE CLAY, WET. GRAY 10YR 4/1, VERY FINE SAND AND SILT, SOME CLAY, WET.			SM ML	N/A N/A	PID=0 ppm $\alpha=2$ ppm $\beta\Gamma=80$ cpm
115.0 116.5	008259 03/06/88 16:30	5 15	15 28	18	DENSE, GRAY 10YR 4/1, FINE-MEDIUM SAND, SOME SILT, TRACE CLAY, WET			SM	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm
120.0 121.5	008260 03/06/88 17:45	8 24	24 26	18	DENSE, GRAY 10YR 4/1 FINE SAND, SOME SILT, TRACE CLAY, WET.			SM	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm
125.0 126.5	008261 03/07/88 09:20	4 7	7 8	18	STIFF, GRAY-GREEN 5YR 4/1 CLAY, SOME SILT, MOIST.			CL	1.25	PID=0 ppm $\alpha=2$ ppm $\beta\Gamma=60$ cpm
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 602 3.2					PROJECT NAME: CRU2 RI PHASE 1 FIELD INVESTIGATION						
BORING NUMBER: 3046					COORDINATES: NORTH 478051.23 EAST 1379438.66			DATE: 22-MAY-90			
GROUND ELEVATION: 576.46					GWL: Depth	Date/Time		DATE STARTED: 22-MAY-90			
ENGINEER/GEOLOGIST: M. SWANSON					Depth	Date/Time		DATE COMPLETE: 04-JUN-90			
DRILLING METHOD: CABLE-TOOL DRILLING											
D E P T H	S A M P L E	D A T E E E	B L O W S A M P L E O N	R E C O V E R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS		
75.0 76.5	032704 05/24/90 10:41	16 21 27	18	DENSE, GRAY TO DARK GRAY (10 YR 5/1 TO 4/1) WELL GRADED COARSE SAND, SOME SILT AND COBBLES (TO .75 IN.), SATURATED					SW	N/A	PID=0.1 ppm $\alpha=0$ ppm $\delta\Gamma=60-85$ cpm
80.0 81.5	032705 05/30/90 09:05	10 21 22	15	DENSE, DARK GRAYISH BROWN (10 YR 4/2) POORLY GRADED FINE SAND; TRACE OF SUBROUNDED PEBBLES; SOME SILT, SATURATED					SP	N/A	PID=0.2 ppm $\alpha=0$ ppm $\delta\Gamma=40-50$ cpm
85.0 86.5	032706 05/30/90 09:25	15 20 22	18	DENSE, DARK BROWN (7.5 YR 4/2) SILTY FINE GRAINED POORLY GRADED SAND, SOME ROUNDED PEBBLES, (TO .2 IN.) SATURATED.					SM	N/A	PID=0.2 ppm $\alpha=0$ ppm $\delta\Gamma=40-60$ cpm
90.0 91.5	032707 05/30/90 09:56	7 7 8	15	MEDIUM DENSE, BROWN (10 YR 5/3), SILTY WELL GRADED COARSENING SAND, SOME ROUNDED PEBBLES, SATURATED					SM	N/A	PID=0.1 ppm $\alpha=0$ ppm $\delta\Gamma=50-70$ cpm
100.0 101.5	032709 05/30/90 14:18	3 9 22	18	DENSE, GRAYISH BROWN (10 YR 5/2) WELL GRADED COARSE SAND, SOME SILT, SATURATED					SW	N/A	PID=0.1 ppm $\alpha=0$ ppm $\delta\Gamma=60-80$ cpm
105.0 106.5	032710 05/30/90 16:20	9 11 15	16	MEDIUM DENSE, GRAYISH BROWN (10 YR 5/2), WELL GRADED FINE SAND, SOME SILT, SATURATED					SW	N/A	PID=0.1 ppm $\alpha=0$ ppm $\delta\Gamma=40-50$ cpm
110.0 111.5	032711 05/30/90 16:42	2 3 11	14	MEDIUM DENSE, DARK GRAY (2.5 Y 4/0), WELL GRADED FINE SAND, SOME SILT, TRACE OF ROUNDED PEBBLES (TO .25 IN.); SATURATED					SW	N/A	PID=0.06 ppm $\alpha=0$ ppm $\delta\Gamma=60-70$ cpm
115.0 116.5	032712 05/31/90 10:33	8 20 22	16	DENSE, DARK GRAY (10 YR 4/1), POORLY GRADED FINE SILTY SAND, SATURATED					SM	N/A	PID=0.15 ppm $\alpha=0$ ppm $\delta\Gamma=40-50$ cpm
120.0 121.5	032713 05/31/90 14:41	6 13 20	13	DENSE, DARK GRAY (10 YR 4/1), WELL-GRADED SILTY SAND, SOME PEBBLES (TO .2 IN.), SUBROUNDED; COARSE SAND; SATURATED					SW	N/A	PID=0.15 ppm $\alpha=0$ ppm $\delta\Gamma=60-80$ cpm
125.0 126.5	032714 05/31/90 15:52	7 9 18	17	MEDIUM DENSE, GRAY (2.5 Y 5/0), POORLY GRADED MEDIUM TO COARSE SAND, SOME SILT, SATURATED.					SP	N/A	PID=0.1 ppm $\alpha=0$ ppm $\delta\Gamma=40-70$ cpm
130.0 131.5	032715 05/31/90 17:27	2 3 16	18	MEDIUM DENSE, DARK GRAY (2.5 Y 4/0) WELL GRADED GRAVEL-SAND MIXTURE, SOME SILT, GRAVEL TO 1.0 IN., FRACTURED LIMESTONE COBBLE, SATURATED					GW	N/A	PID=0.1 ppm $\alpha=0$ ppm $\delta\Gamma=40-60$ cpm
135.0 136.5	032716 06/01/90 11:15	22 16 15	14	DENSE, GRAY (2.5 Y 5/0) SILT-GRAVEL-SAND MIXTURE, GRAVEL TO 1.25 IN., SATURATED					GM	N/A	PID=0.08 ppm $\alpha=0$ ppm $\delta\Gamma=50$ cpm
NOTES:											
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable											

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PROJECT NUMBER: 602 3.2					PROJECT NAME: CRUZ RI PHASE I FIELD INVESTIGATION					
BORING NUMBER: 3049					COORDINATES: NORTH 477021.22 EAST 1380061.42			DATE: 01-NOV-88		
GROUND ELEVATION: 540.7					GWL: Depth	Date/Time	DATE STARTED: 01-NOV-88			
ENGINEER/GEOLOGIST: L. ADAMS					Depth	Date/Time	DATE COMPLETE: 14-NOV-88			
DRILLING METHOD: CABLE-TOOL DRILLING										
D E P T H	S A M P L E	D A T E E E	B L O W S L E E N	R E C O V E R Y				S U S C B S O L	T S F	REMARKS
45.0 46.5		008980 11/02/88 14:40	20 24 44	10	VERY DENSE, GRAYISH BROWN (10 YR - 4/2) WELL GRADED GRAVEL SAND MIXTURE, WET.			GW	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=20$ cpm
50.0 51.5		008981 11/02/88 15:45	6 8 9	14	MEDIUM DENSE GRAY-BROWN (10 YR 4/2) WELL GRADED GRAVELLY SAND - WET. STIFF, YELLOW BROWN (10 YR 5/3) GRAVELLY CLAY (TO .25 IN.) DAMP. MEDIUM DENSE GRAY-BROWN (10 YR 4/2) WELL GRADED GRAVEL SAND MIXTURE. (GRAVEL .25 TO .50 IN.) WET.			SW CL GW	N/A 2.0 N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=20$ cpm
55.0 56.5		008982 11/03/88 09:50	25 28 41	18	ENCOUNTERED BLOW SAND AT 55 FT. VERY DENSE, GRAY BROWN (10 YR 4/3) WELL GRADED GRAVEL SAND MIXTURE (GRAVEL SIZE .25 - .75 IN.) WET			GW	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=20$ cpm
60.0 61.5		008983 11/03/88 11:35	8 9 10	18	MED. DENSE, GRAY BROWN (YR 10 4/3) WELL GRADED GRAVEL SAND MIXTURE, VERY WET. MED. DENSE, GRAY ORANGISH BROWN POORLY GRADED SANDS, TRACE GRAVEL (10 YR 4/4) WET - (GRAVEL .5 IN.)			GW SP	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=20$ cpm
65.0 66.5		008984 11/03/88 15:55	85 70 56	18	VERY DENSE, BROWN TO ORANGE-BROWN (10 YR 4/3) MED. TO WELL SORTED GRAVEL SAND MIXTURE (GRAVEL .1 - 1 IN.) WET			GW	N/A	PID=0 ppm $\alpha=2$ ppm $\beta\Gamma=20$ cpm
70.0 71.5		008985 11/06/88 09:25	9 10 13	12	MED. DENSE, DARK GRAYISH BROWN (10 YR - 4/3) POORLY SORTED SAND, TRACE GRAVEL (3/8 IN.) DAMP-DRY, TRACE CLAY.			SC	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
75.0 76.5		008986 11/06/88 11:33	32 25 20	12	VERY DENSE, DARK BROWN GRAY (10 YR - 4/2) POORLY SORTED SAND, SOME GRAVEL (GRAVEL TO .8 IN.) DAMP			SP	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40$ cpm
80.0 81.5		008987 11/07/88 08:46	12 13 14	10	MED. DENSE DARK GRAYISH BROWN (10 YR - 3/3) POORLY SORTED, VERY FINE SAND, SOME GRAVEL. WET.			SP	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=100$ cpm
85.0 86.5		008988 11/07/88 10:30	6 9 9	8	MED. DENSE - MED. TO DARK GRAYISH BROWN (10 YR - 4/2) POORLY GRADED GRAVELLY SAND (GRAVEL TO .75 IN.) WET.			SP	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40$ cpm
90.0 91.5		008989 11/07/88 15:10	13 14 10	11	MED. DENSE DARK GRAYISH BROWN (10 YR 4/2) MED. TO WELL SORTED GRAVELLY SAND (GRAVEL TO .75 IN.) WET.			SW	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-60$ cpm
95.0 96.5		008990 11/07/88 16:26	18 16 15	6	DENSE - DARK GRAY BROWN (10 YR 4/2) WELL SORTED GRAVELLY SAND (GRAVEL TO .5 IN.) WET.			SW	N/A	PID=0 ppm $\alpha=1$ ppm $\beta\Gamma=40$ cpm
100.0 101.5		008991 11/08/88 09:00	18 20 19	12	DENSE, GRAY BROWN (10 YR 4/2) POORLY SORTED FINE SAND. DAMP - MED. WET.			SP	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=20-40$ cpm
NOTES:										
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PROJECT NUMBER: 602 3.2					PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION					
BORING NUMBER: 3065					COORDINATES: NORTH 477856.08 EAST 1380406.96 DATE:01-NOV-88					
GROUND ELEVATION: 571.7					GWL: Depth Date/Time			DATE STARTED: 01-NOV-88		
ENGINEER/GEOLOGIST: D. HOEKSTRA					Depth Date/Time			DATE COMPLETE: 09-NOV-88		
DRILLING METHOD: CABLE-TOOL DRILLING										
D E P T H	S A M P L E	D A T E	B L O W S A M P L E N O N	R E C O V E R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS	
70.0 71.5	008928 11/03/88 09:20	17 25 30	12	VERY DENSE, GREY BROWN (10 YR 5/2) WELL GRADED GRAVELLY SAND (1/8" - 1/4") SOME FINES, WET. DARK GREY (10 YR 3/1) WELL GRADED GRAVELLY SAND, WET.				SP	N/A	PID=0 ppm $\alpha=0$ -2 ppm $\beta\Gamma=70$ cpm
75.0 76.5	008929 11/03/88 11:15	8 40 66	18	VERY DENSE, DARK YELLOWISH BROWN, (10 YR 3/2), VERY WELL GRADED GRAVELLY SAND (MEDIUM SAND TO 1" GRAVEL), LITTLE OF NO FINES, WET. BROWN TO YELLOW BROWN, (10 YR 4/2) POORLY GRADED MEDIUM SAND NO GRAVEL, LITTLE OR NO FINES, WET.				SW SP	N/A	PID=0 ppm $\alpha=1$ ppm $\beta\Gamma=50$ cpm
80.0 81.5	008930 11/03/88 13:20	3 2 2	6	VERY LOOSE, GREYISH BROWN (10 YR 4/2) WELL GRADED GRAVELLY SAND (FINE SAND TO 1/4" GRAVEL) WET.				SW	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
85.0 86.5	008931 11/03/88 13:45	2 3 13	2	MEDIUM DENSE, GREYISH BROWN (10 YR 4/2) WELL GRADED GRAVELLY SAND (FINE SAND TO 1/4" GRAVEL)				SW	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
90.0 91.5	008932 11/03/88 16:17	24 54 50	14	VERY DENSE, DARK BROWN (10 YR 3/2) WELL GRADED COARSE SAND, TRACE GRAVEL, WET.				SW	N/A	PID=0 ppm $\alpha=2$ ppm $\beta\Gamma=60$ cpm
95.0 96.5	008933 11/03/88 16:45	9 20 23	4	VERY DENSE, DARK BROWN, YELLOWISH (10 YR 4/2) WELL GRADED SANDY GRAVEL (COARSE SAND TO 1/4"), WET.				GW	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
100.0 101.5	008934 11/03/88 17:10	9 9 10	6	MEDIUM DENSE, BROWN (10 YR 4/2) POORLY GRADED COARSE SAND, SOME 1/4" GRAVEL, SOME FINES, WET.				SP	N/A	PID=0 ppm $\alpha=2$ ppm $\beta\Gamma=40$ cpm
110.0 111.5	008936 11/06/88 10:30	7 10 16	2	MEDIUM DENSE, GREYISH DARK BROWN (10 YR 4/1) WELL GRADED SAND WITH SOME GRAVEL (MED. SAND TO 1/4") WET.				SW	N/A	PID=0 ppm $\alpha=1$ ppm $\beta\Gamma=50$ cpm
NOTES:										
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER: 602 3.2					PROJECT NAME: CRUZ RI PHASE I FIELD INVESTIGATION				
BORING NUMBER: 3385					COORDINATES: NORTH 477883.04 EAST 1379932.66			DATE: 05-JUN-90	
GROUND ELEVATION: 577.4					GWL: Depth	Date/Time		DATE STARTED: 05-JUN-90	
ENGINEER/GEOLOGIST: M. SWANSON					Depth	Date/Time		DATE COMPLETE: 01-JUL-90	
DRILLING METHOD: CABLE-TOOL DRILLING									
D E P T H	S A M P L E	D A T E E E	T I M E S P L E R E V E Y	B L O W N E S P L E R E V E Y	R E C O V E R H E S	I N C H E S	S U Y S M C B S O L	T S F	REMARKS
75.0 76.5	032724 06/13/90 13:25	10 21 23	18	DENSE, DARK GRAYISH BROWN (10 YR 4/2), WELL-GRADED COARSE SAND, SOME SUBROUNDED PEBBLES AND COBBLES, TRACE OF SILT, SATURATED		SW	N/A	PID=0.8 ppm $\alpha=0$ ppm $BT=80-100$ cpm	
80.0 81.5	032725 06/13/90 13:57	4 18 24	16	DENSE, DARK GRAY (10 YR 4/1) POORLY GRADED FINE SAND, SOME SUBROUNDED PEBBLES, SATURATED.		SP	N/A	PID=0.8 ppm $\alpha=0$ ppm $BT=80-90$ cpm	
85.0 86.5	032726 06/13/90 15:52	18 19 22	10	DENSE, DARK BROWN (10 YR 4/3), WELL GRADED COARSE SAND, SOME SUBROUNDED PEBBLES, TRACE SILT, SATURATED		SW	N/A	PID=1.0 ppm $\alpha=0$ ppm $BT=60-80$ cpm	
90.0 91.5	032727 06/13/90 17:10	18 20 19	18	DENSE, DARK BROWN (10 YR 4/3) WELL GRADED COARSENING SAND, SOME SILT AND PEBBLES (.5 IN.), SATURATED		SW	N/A	PID=1.1 ppm $\alpha=0$ ppm $BT=60-80$ cpm	
95.0 96.5	032728 06/14/90 09:37	10 25 33	14	VERY DENSE, GRAYISH BROWN (10 YR 5/2) WELL GRADED, COARSENING SAND, SOME SILT SOME PEBBLES AND GRAVEL (TO .75 IN) SATURATED		SW	N/A	PID=0.6 ppm $\alpha=0$ ppm $BT=40-60$ cpm	
95.0 96.5	032738 06/28/90 08:42	15 23 25	16	DENSE, DARK GRAY (10 YR 4/1); WELL GRADED FINE SILTY SAND; SATURATED		SM	N/A	PID=0.0 ppm $\alpha=0$ ppm $BT=40-140$ cpm	
100.0 101.5	032729 06/14/90 10:37	18 25 36	16	VERY DENSE, DARK GRAYISH BROWN (10 YR 4/2) SILTY, FINE GRAINED SAND, TRACE PEBBLES AND GRAVEL (TO .5 IN) SATURATED		SM	N/A	PID=0.4 ppm $\alpha=0$ ppm $BT=80-100$ cpm	
100.0 101.5	032739 06/28/90 09:24	11 14 9	12	MEDIUM DENSE, DARK GRAYISH BROWN (10 YR 4/2) WELL GRADED GRAVELLY SAND, SOME SILT AND PEBBLES (TO .30 IN); SUBANGULAR; SATURATED		SW	N/A	PID=0.0 ppm $\alpha=0$ ppm $BT=20-100$ cpm	
105.0 106.5	032730 06/14/90 13:34	16 25 28	14	VERY DENSE, BROWN TO GRAYISH BROWN WELL GRADED (10 YR 4/3 - 5/2) SAND SOME SILT, GRAVEL, PEBBLES AND LIMESTONE COBBLES (TO 1 IN) SATURATED		SW	N/A	PID=0.4 ppm $\alpha=0$ ppm $BT=40-60$ cpm	
105.0 106.5	032740 06/28/90 10:49	19 25 31	10	VERY DENSE, YELLOWISH BROWN (10 YR 5/4) WELL GRADED COARSENING SAND, SOME SILT AND PEBBLES AND GRAVEL (TO .75 IN); SATURATED		SW	N/A	PID=0.0 ppm $\alpha=0$ ppm $BT=40-100$ cpm	
110.0 111.5	032731 06/14/90 15:52	20 31 27	13	DENSE, GRAYISH BROWN (10 YR 5/2); POORLY GRADED FINE SAND; SOME SILT, PEBBLES TO .20 IN.; SATURATED. MEDIUM DENSE, DARK GRAYISH BROWN (10 YR 4/2); SANDY SILT; FINE-GRAINED SAND WITH PEBBLES TO .25 IN, SATURATED		SP SM	<.2	PID=0.4 ppm $\alpha=0$ ppm $BT=80-100$ cpm	
115.0 116.5	032732 06/15/90 09:12	7 18 19	8	DENSE, DARK GRAY (10 YR 4/1) WELL GRADED SANDY GRAVEL (COBBLES TO 1.0 IN.) SOME SILT, SATURATED		GW	N/A	PID=0.4 ppm $\alpha=0$ ppm $BT=80-90$ cpm	
120.0 121.5	032733 06/15/90 11:11	7 12 16	6	VERY SOFT, DARK GRAY (2.5 Y 4/0); VERY FINE SANDY SILT; TRACE OF SUBROUNDED PEBBLES AT 120.0 FT; SATURATED		ML	<0.25	PID=0.3 ppm $\alpha=0$ ppm $BT=50-60$ cpm	
NOTES:									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 602 3.2					PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION					
BORING NUMBER: 3385					COORDINATES: NORTH 477883.04 EAST 1379932.66			DATE: 05-JUN-90		
GROUND ELEVATION: 577.4					GWL: Depth Date/Time			DATE STARTED: 05-JUN-90		
ENGINEER/GEOLOGIST: M. SWANSON					Depth Date/Time			DATE COMPLETE: 01-JUL-90		
DRILLING METHOD: CABLE-TOOL DRILLING										
D E P T H	S A M P L E	D A T E E	B L O W S O N	S A M P L E R E V E R Y	R E C O V E R Y	I N C H E S	S U Y S M C B S O L	T S F	REMARKS	
125.0	032734	10	12	10	SOFT, DARK GRAY (2.5 Y 4/0); SAND: SILT MIXTURE (APPROX 2:3), FINE GRAINED, POORLY SORTED SAND, SATURATED			SM	0.35	PID=0.2 ppm $\alpha=0$ ppm $\beta\Gamma=40-60$ cpm
126.5	032735	10	12	13	VERY DENSE, DARK GRAY (10 YR 4/1), SILTY GRAVEL, SOME SAND; LIMESTONE COBBLE FRAGMENTS, SUBROUNDÉD, SATURATED.			GM	N/A	PID=0.2 ppm $\alpha=0$ ppm $\beta\Gamma=40-60$ cpm
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 602 3.2					PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION						
BORING NUMBER: 4014					COORDINATES: NORTH 476786.78 EAST 1379582.56 DATE: 26-OCT-88						
GROUND ELEVATION: 533.4					GWL: Depth	Date/Time		DATE STARTED: 26-OCT-88			
ENGINEER: SLUSARSKI/TROLL					Depth	Date/Time		DATE COMPLETE: 08-NOV-88			
DRILLING : 1-1/2" TOOL DRILLING											
DEPTH	SAMPLE	DATE	TIME	BORING	SAMPLE	RECOVERY	TESTS	SYMBOL	TSF	REMARKS	
								U S M C B S O L			
25.0	010385 11/01/88 09:52	15 21 25		12	DENSE, DK YELLOW-BROWN (10 YR 4/2) WELL GRADED GRAVELLY SAND, SOME SILT, WET SOME GRAVEL (.25 - .50 IN)				SW	N/A	PID=0 ppm α =0-5 ppm BT=40-60 cpm
26.5											
30.0	010386 11/01/88 11:08	10 10 9		10	MEDIUM DENSE DK OLIVE-BROWN (10 YR 4/2) WELL GRADED GRAVEL SAND MIXTURE (GRAVEL .25 - 1.0 IN) WET. MEDIUM DENSE DK OLIVE-BROWN (10 YR 4/2) POORLY GRADED GRAVELLY SAND, WET.				GW SP	N/A N/A	PID=0 ppm α =0-5 ppm BT=40-60 cpm
31.5											
35.0	010387 11/01/88 14:05	15 17 18		14	DENSE Y-B (10 YR 5/3) WELL GRADED GRAVEL SAND MIXTURE (GRAVEL .25 - 1.0 IN) WET.				GW	N/A	PID=0 ppm α =0-5 ppm BT=40-60 cpm
36.5											
40.0	010388 11/01/88 14:55	20 16 17		8	MEDIUM DENSE Y-B (10 YR 5/3) WELL GRADED GRAVEL SAND MIXTURE (GRAVEL .25 - .50) WET				GW	N/A	PID=0 ppm α =0-5 ppm BT=40-60 cpm
41.5											
45.0	010389 11/01/88 16:15	28 30 28		12	V. DENSE Y-B (10 YR 5/3) WELL GRADED GRAVEL SAND MIXTURE (TR COULD GRAVEL .5 - 1.0 IN) WET				GW	N/A	PID=0 ppm α =0-5 ppm BT=40-60 cpm
46.5											
50.0											
51.5											
55.0	010391 11/02/88 10:20	15 19 24		15	DENSE, Y-B (10 YR 4/2) POORLY GRADED SAND, SOME FINE GRAVEL, WET				SP	N/A	PID=0 ppm α =0-5 ppm BT=30 cpm
56.5											
60.0	010392 11/02/88 11:00	3 5 7		10	MEDIUM DENSE, Y-B (10 YR 4/2) WELL GRADED SAND (SOME 1/4" GRAVEL), WET.				SW	N/A	PID=0 ppm α =0-5 ppm BT=30 cpm
61.5											
65.0	010393 11/02/88 13:55	13 24 25		15	DENSE, YELLOW BROWN (10 YR 4/4) POORLY GRADED SAND, SOME GRAVEL 3/8" - 1/4", WET.				SP	N/A	PID=0 ppm α =0-5 ppm BT=20 cpm
66.5											
75.0	010395 11/03/88 09:00	15 19 19		10	DENSE, YELLOW BROWN, (10 YR 4/3) WELL GRADED SAND, LITTLE FINES, WET.				SW	N/A	PID=0 ppm α =0-5 ppm BT=30 cpm
76.5											
80.0	010396 11/03/88 09:30	6 7 14		6	MEDIUM DENSE, YELLOWISH BROWN, (10 YR 4/3) POORLY GRADED SAND, VERY LITTLE FINES, WET.				SP	N/A	PID=0 ppm α =0-5 ppm BT=20 cpm
81.5											
85.0	010397 11/03/88 11:00	9 15 20		9	DENSE, DARK BROWN (10 YR 3/3) POORLY GRADED SAND, VERY LITTLE FINES, WET.				SP	N/A	PID=0 ppm α =0 ppm BT=30 cpm
86.5											
90.0	010398 11/03/88 12:00	8 12 13		18	MEDIUM DENSE, YELLOWISH BROWN, (10 YR 4/3), WELL GRADED SAND (SOME GRAVEL (.25 - .50 IN.), WET.				SW	N/A	PID=0 ppm α =0-5 ppm BT=20 cpm
91.5											
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 602 3.2					PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION						
BORING NUMBER: 4014					COORDINATES: NORTH 476786.78 EAST 1379582.56			DATE: 26-OCT-88			
GROUND ELEVATION: 533.4					GWL: Depth	Date/Time		DATE STARTED: 26-OCT-88			
ENGINEER/GEOLOGIST: SLUSARSKI/TROLL					Depth	Date/Time		DATE COMPLETE: 08-NOV-88			
DRILLING METHOD: CABLE-TOOL DRILLING											
D E P T H	S A M P L E	D I M E S O N	T I M E E E	B L O W M E S P E L E	R E C O V R E	I N C H E Y		S U S C B S	T S F	REMARKS	
100.0 101.5	010400 11/06/88 09:50	50 39 50	10	VERY DENSE, LIGHT BROWNISH GRAY, (10 YR 6/2) WELL GRADED GRAVEL, FINE GRAVEL RANGE, WET.					GW	N/A	PID=0 ppm α =0-5 ppm BT=10-20 cpm
110.0 111.5	010402 11/07/88 08:45	16 14 12	6	MEDIUM DENSE, YELLOWISH BROWN, (10 YR 5/3), POORLY GRADED SAND, TRACE OF FINE GRAVEL, WET.					SP	N/A	PID=0 ppm α =0 ppm BT=10-20 cpm
115.0 116.5	010403 11/07/88 10:02	15 30 30	10	VERY DENSE, BROWN, (10 YR 4/2), POORLY GRADED SAND, PREDOMINANTLY MEDIUM TO FINE GRAINED, WET					SP	N/A	PID=0 ppm α =0-5 ppm BT=20 cpm
120.0 121.5	010404 11/07/88 11:10	6 7 8	8	MEDIUM DENSE, YELLOWISH BROWN, (10 YR 4/3), POORLY GRADED SAND, WET.					SP	N/A	PID=0 ppm α =0 ppm BT=10-20 cpm
135.0 136.5	010407 11/08/88 08:50	11 25 29	8	VERY DENSE, BROWN, (10 YR 4/3), WELL GRADED SAND, SOME FINE GRAVEL (.25"), WET.					SW	N/A	PID=0 ppm α =0-5 ppm BT=20 cpm
140.0 141.5	010408 11/08/88 10:00	8 13 13	6	MEDIUM DENSE, BROWN (10 YR 3/3), POORLY GRADED SAND, VERY LITTLE GRAVEL (.25"), WET.					SP	N/A	PID=0 ppm α =0-5 ppm BT=20 cpm
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

TABLE F-18B
SOUTH FIELD TRENCHING LOG 1

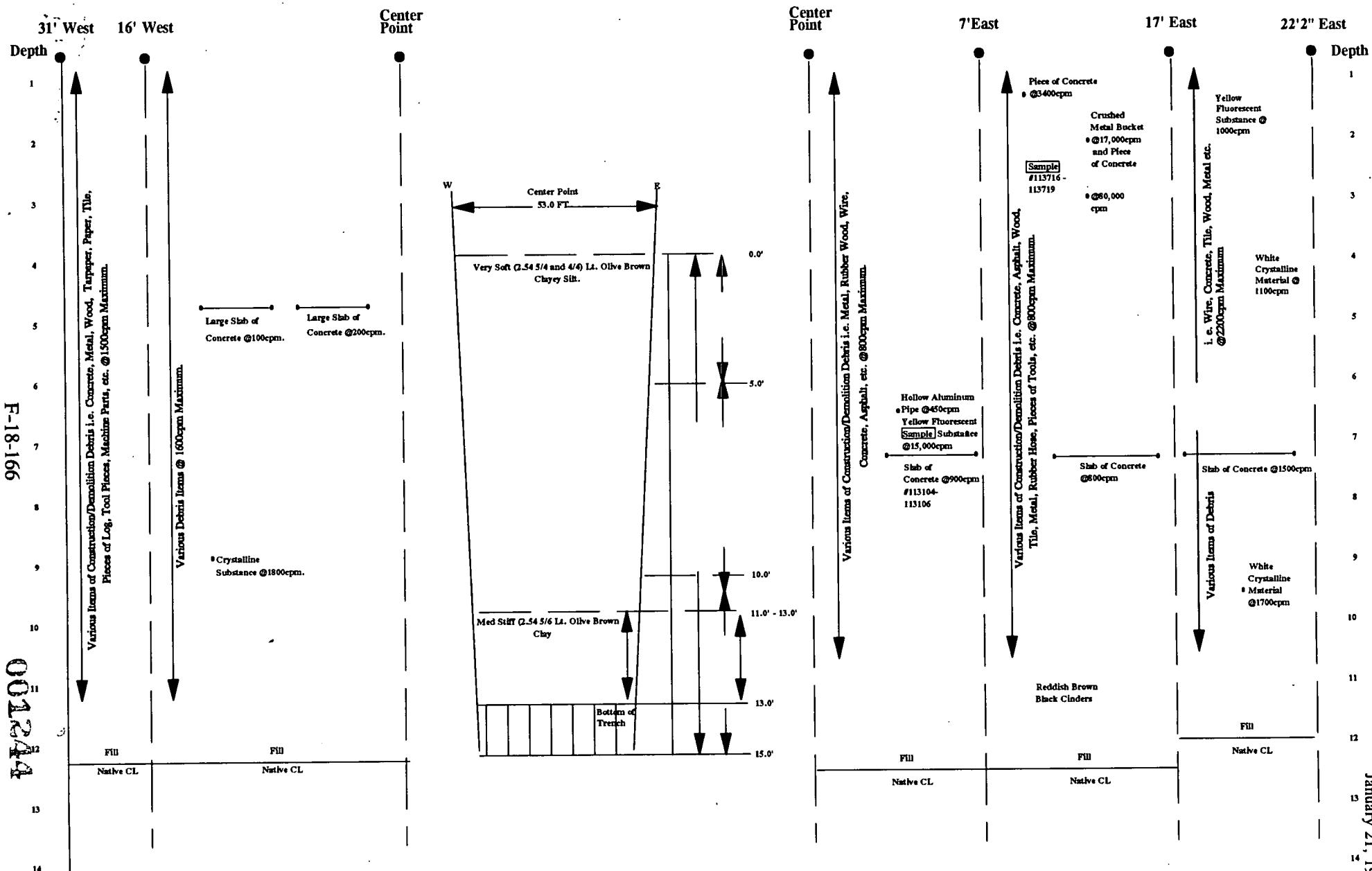


TABLE F-18B
 (Continued)
SOUTH FIELD TRENCHING LOG 2

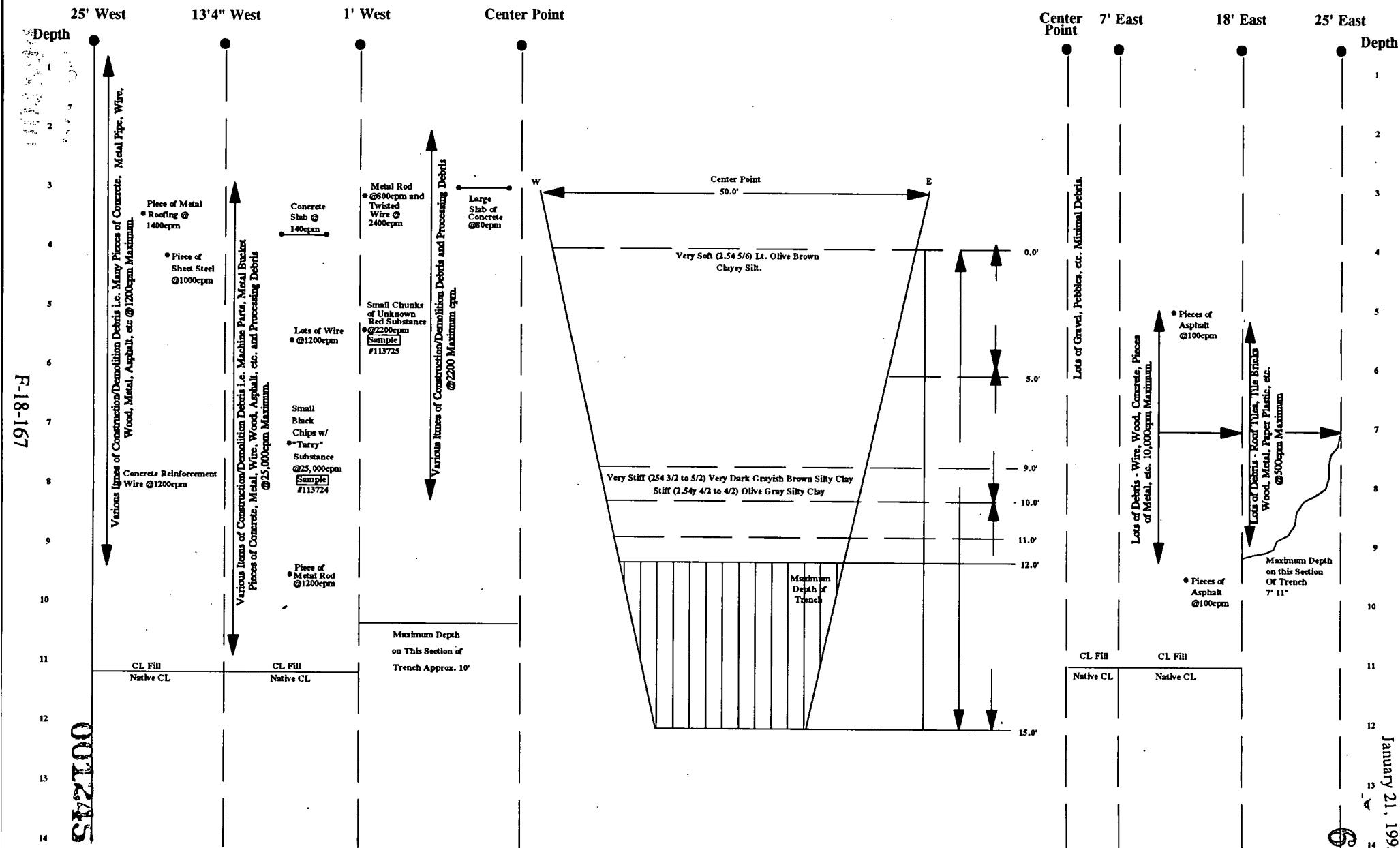


TABLE F-18B
(Continued)
SOUTH FIELD TRENCHING LOG 3

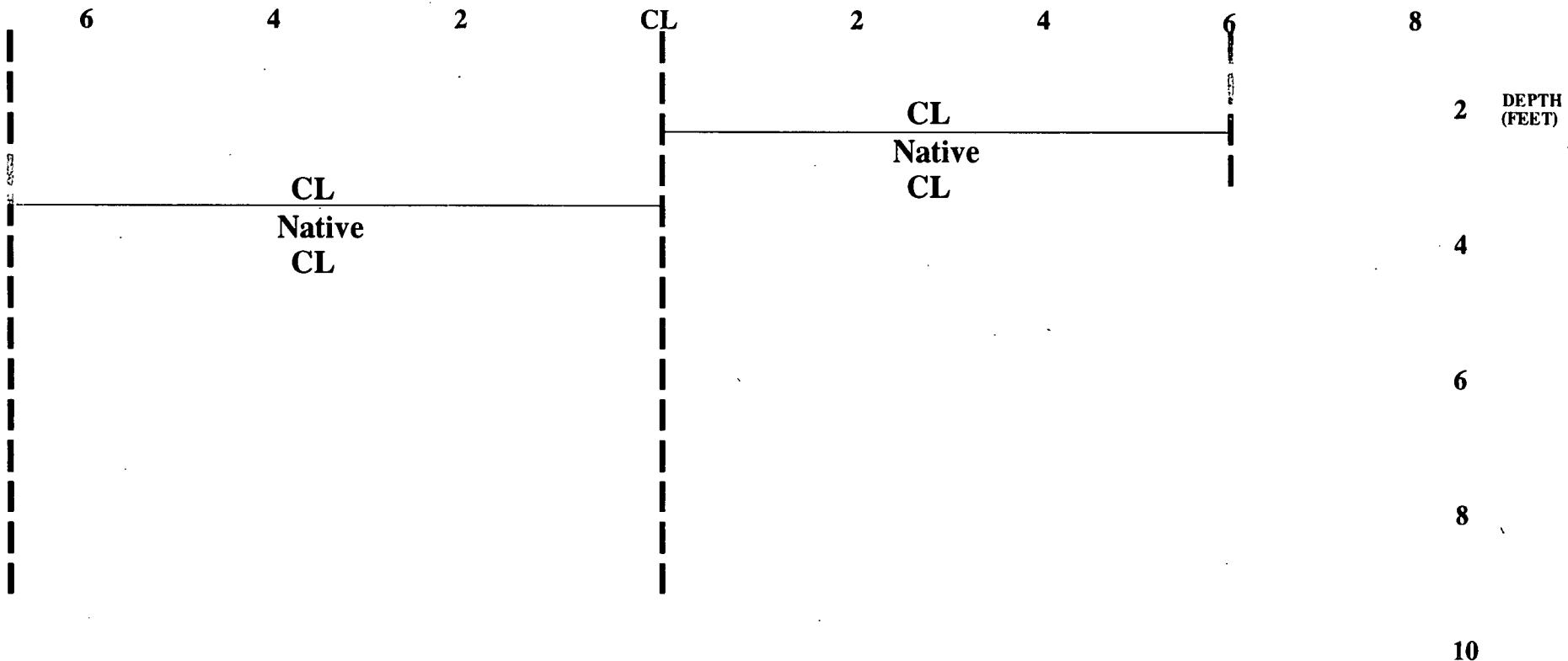
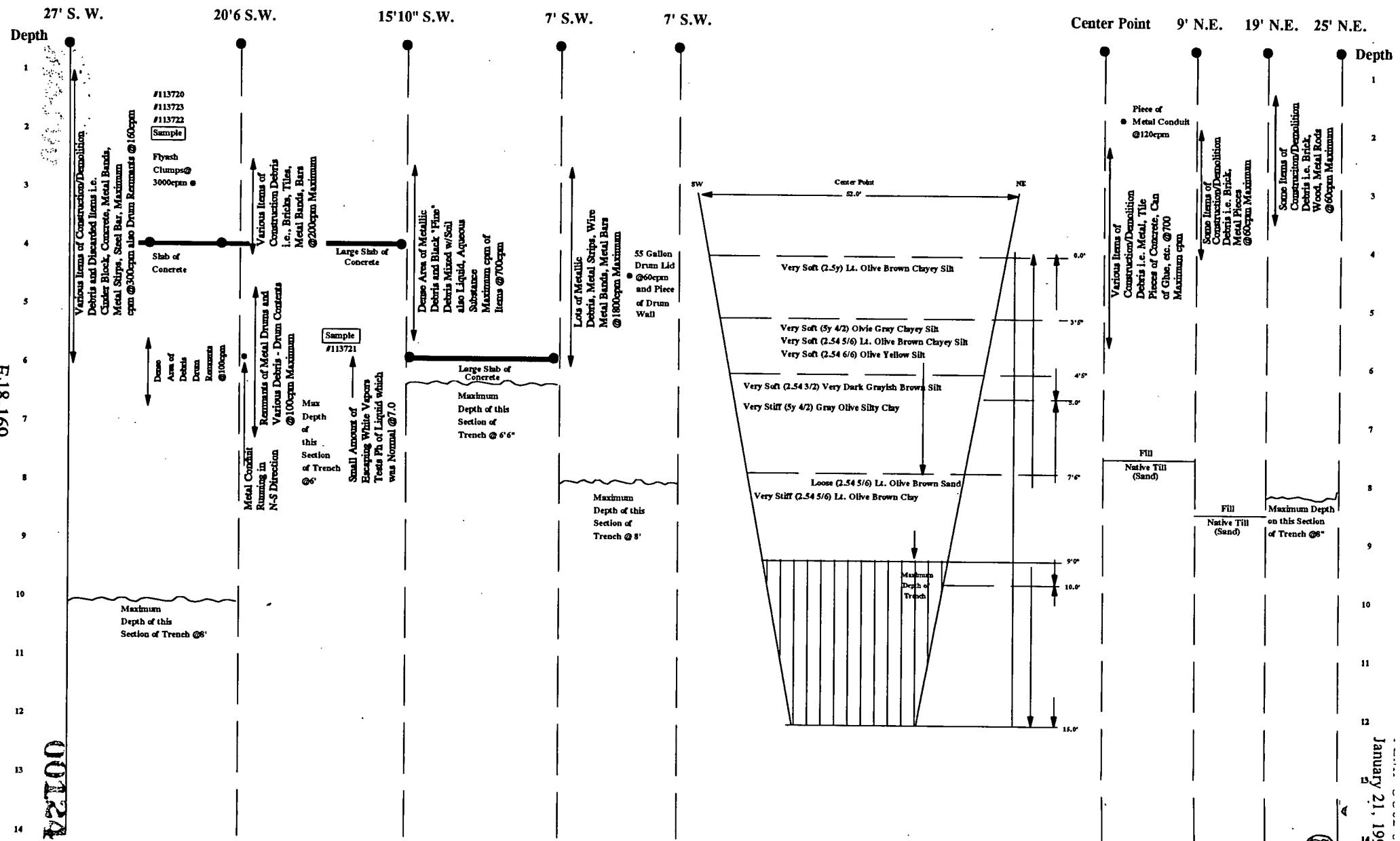


TABLE F-18B
(Continued)

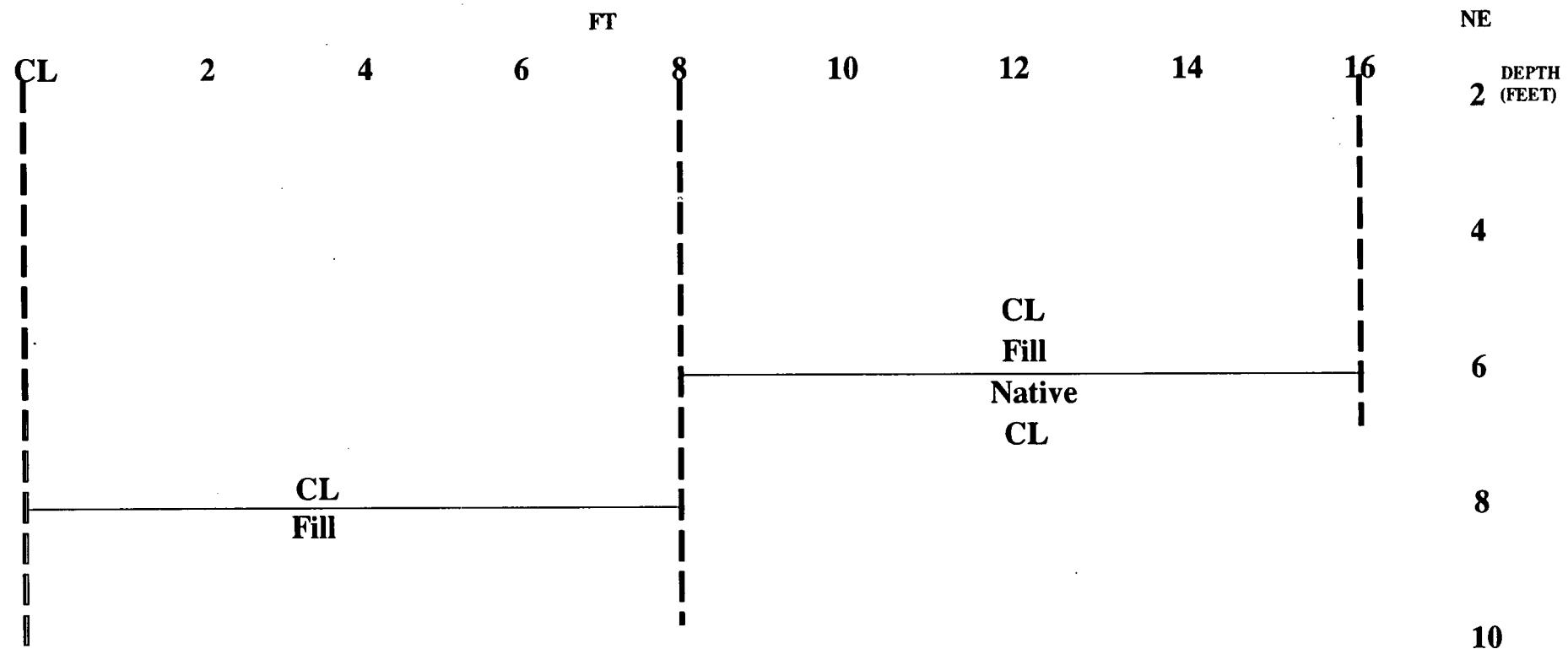
SOUTH FIELD TRENCHING LOG 4



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TABLE F-18B
 (Continued)
SOUTH FIELD TRENCHING LOG 5



| Horizontal Sample Interval Boundary

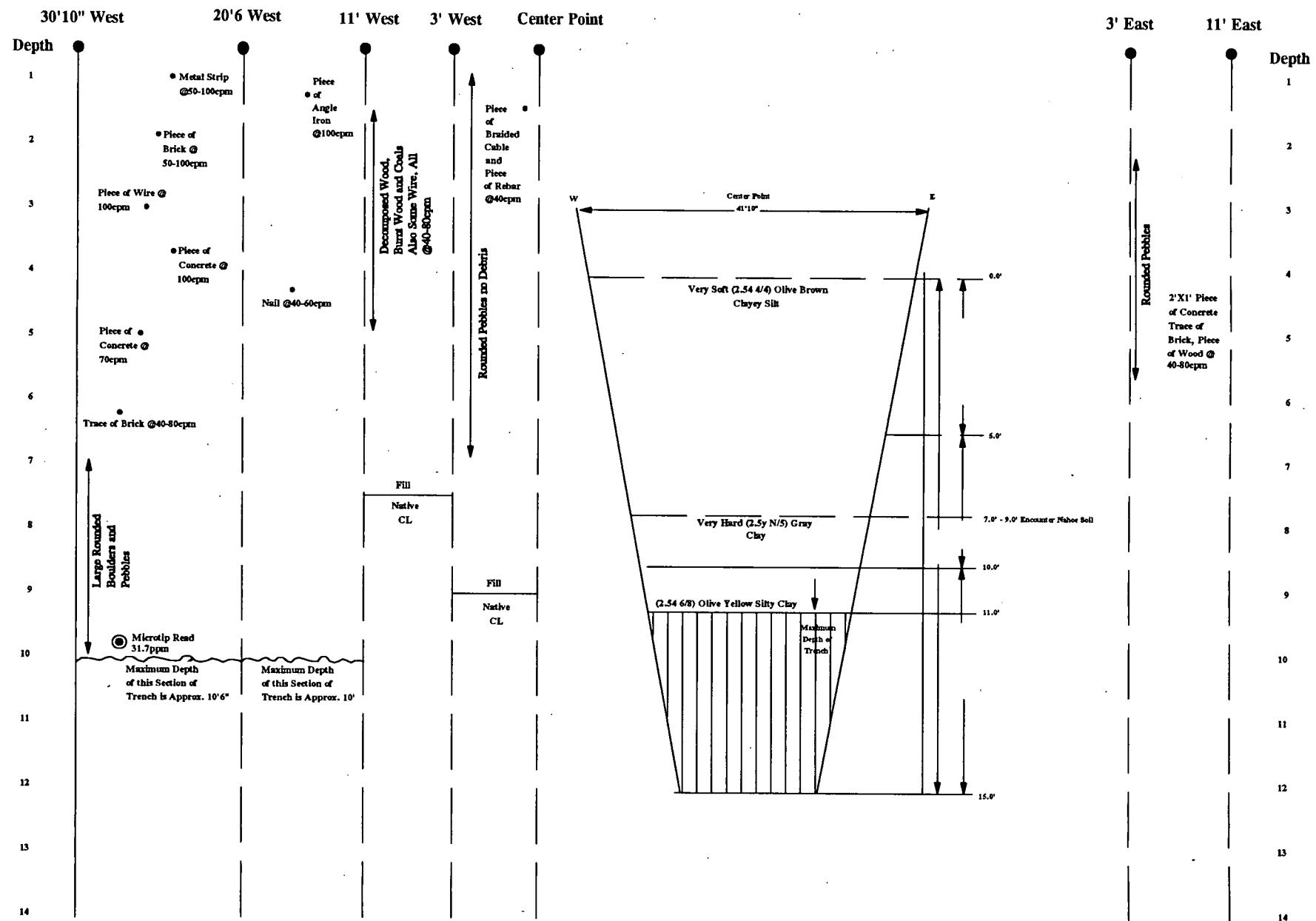
Max Beta-Gamma: 220cpm

Max M. T.: 0.7ppm

001248

F-18-170

TABLE F-18B
(Continued)
SOUTH FIELD TRENCHING LOG 6



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TABLE F-18B
(Continued)

SOUTH FIELD TRENCHING LOG 7

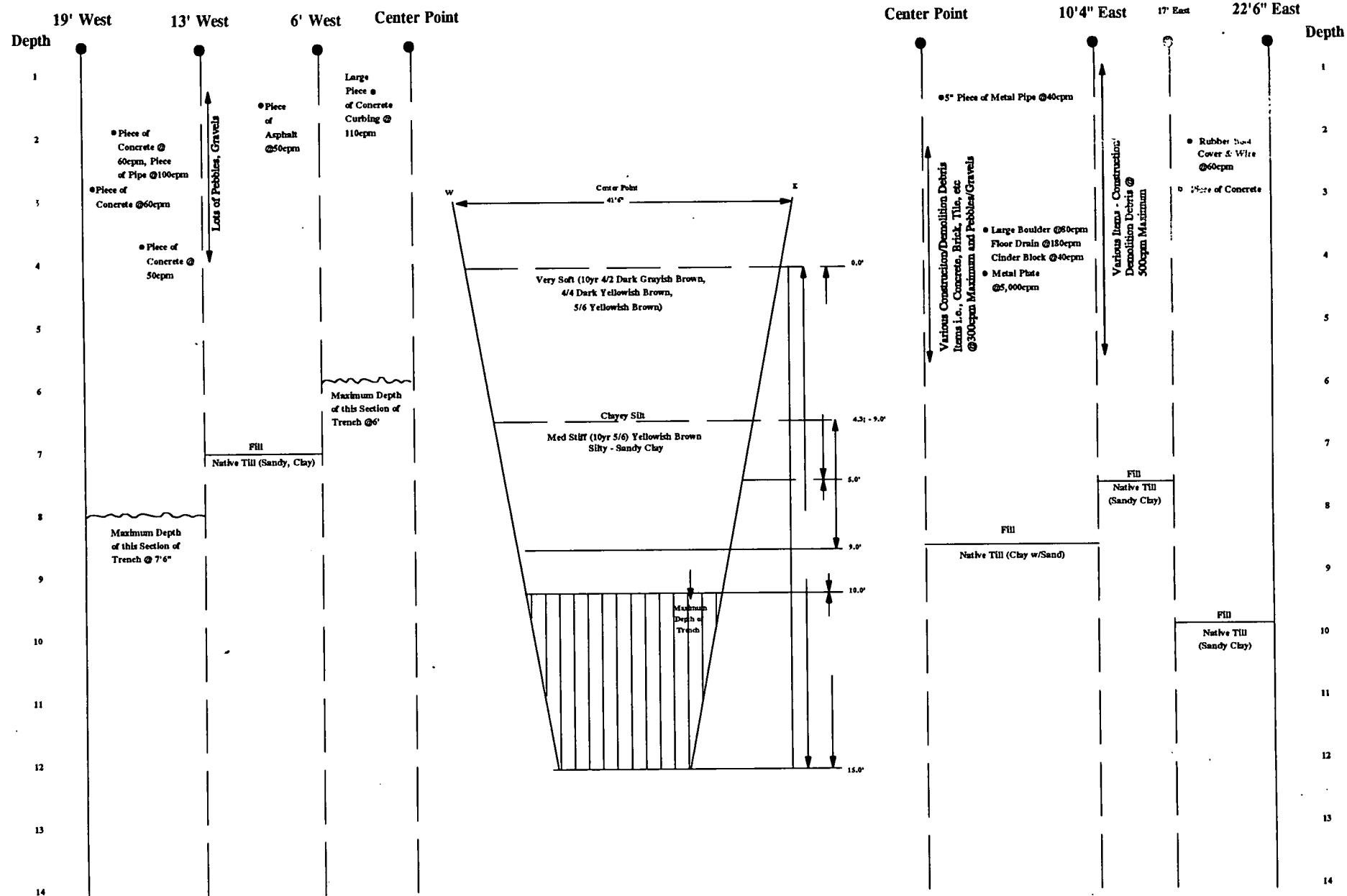


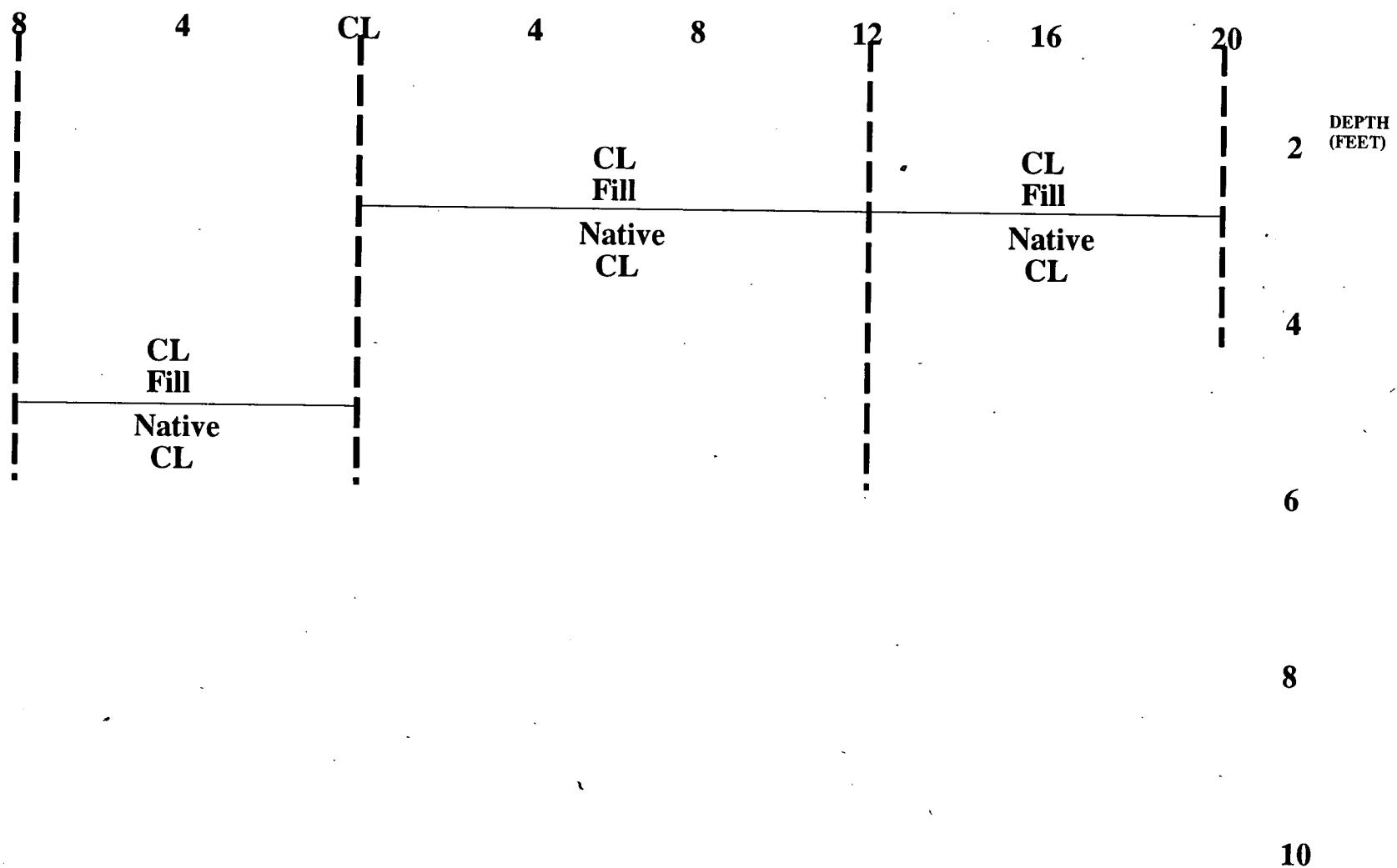
TABLE F-18B

(Continued)

SOUTH FIELD TRENCHING LOG 8

W

E



| Horizontal Sample Interval Boundary

Max Beta-Gamma: 600cpm

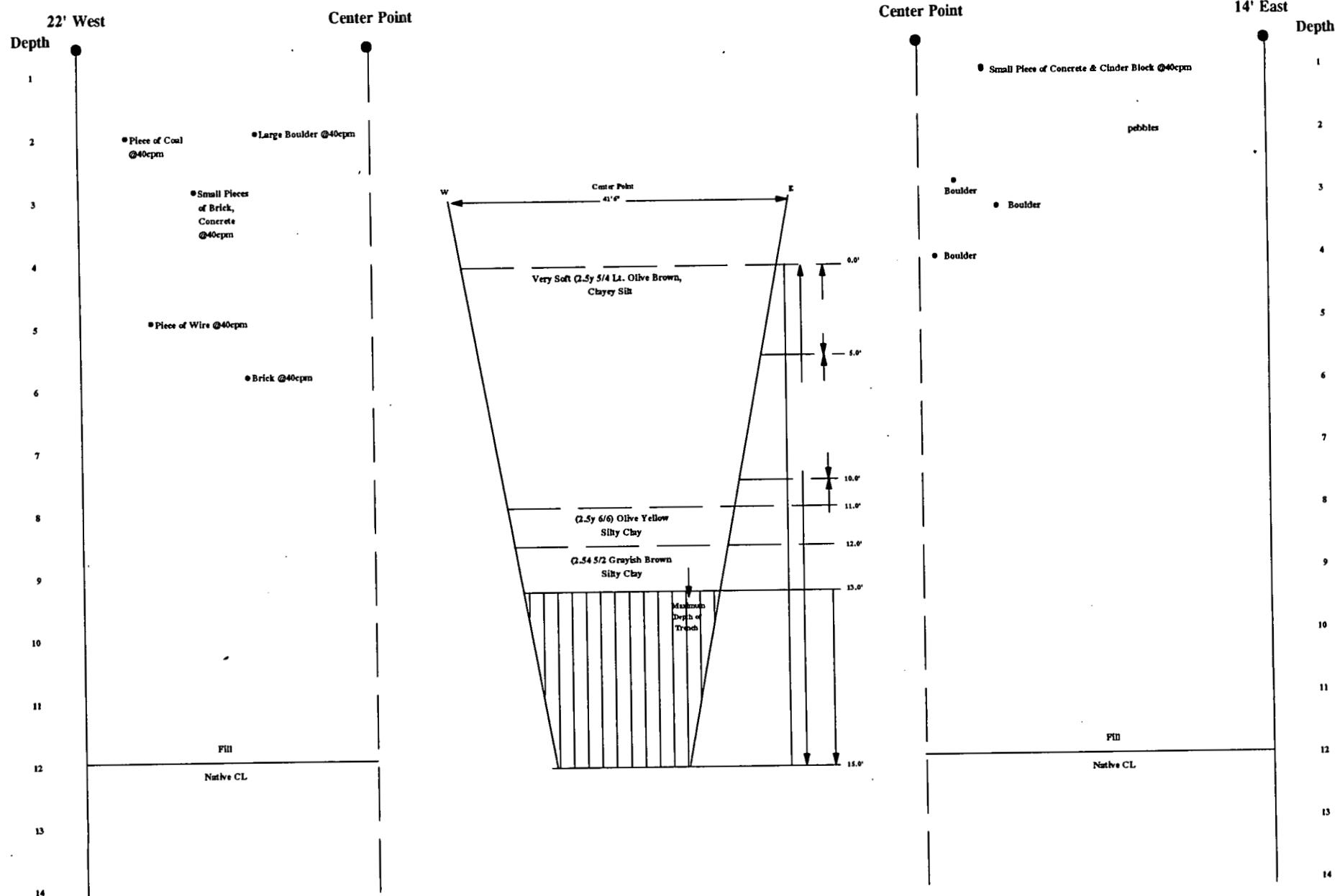
Max M. T.: 4.8ppm

F-18-173

001251

6509

TABLE F-18B
(Continued)
SOUTH FIELD TRENCHING LOG 9

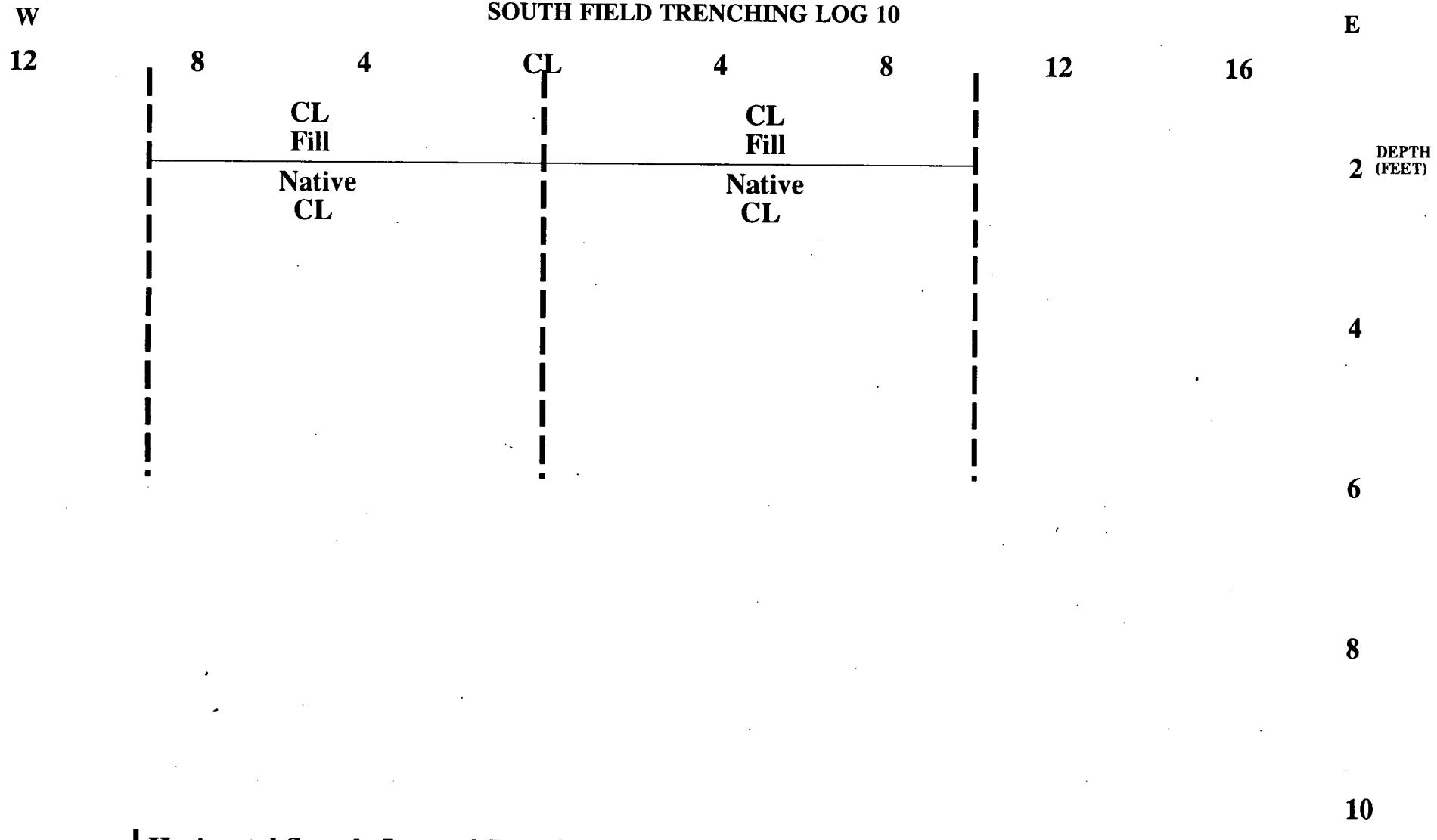


F-18-174

001252

TABLE F-18B
(Continued)

SOUTH FIELD TRENCHING LOG 10



Max Beta-Gamma: 4,600cpm

Max M. T.: 0ppm

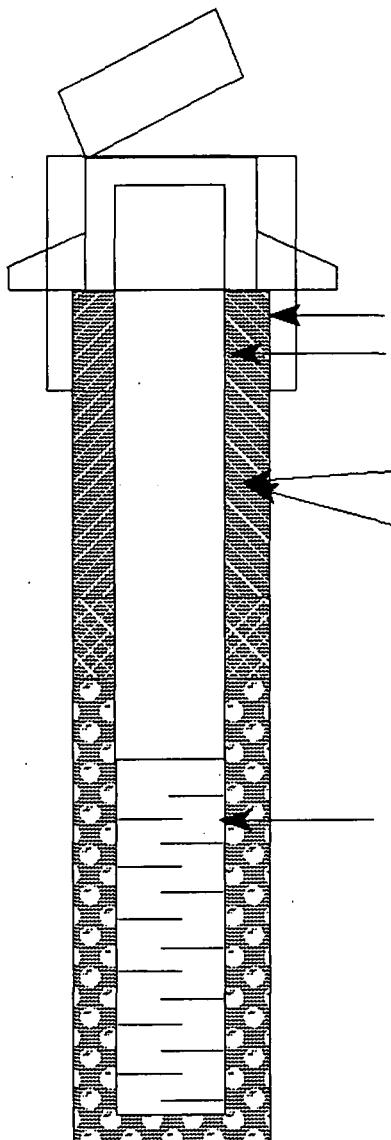
001253

6509
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TABLE F-19

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	1014	COUNTY:	Hamilton
PROJECT ID:	NA	STATE:	Ohio
DATE INSTALLED:	October 18, 1993	CONTRACTOR:	NA
FIELD ENG./GEOL.:	D. Oakley	DRILLED BY:	NA
TYPE OF SEAL:	Bentonite	DRILLING METHOD:	Cable-Tool Drilling
DEVELOPEMENT METHOD:	NA	TYPE OF BIT:	Flat Head Hammer
SURVEY DATUM		SAND PACK TYPE:	NA
		WATER LEVEL/DATE:	NA

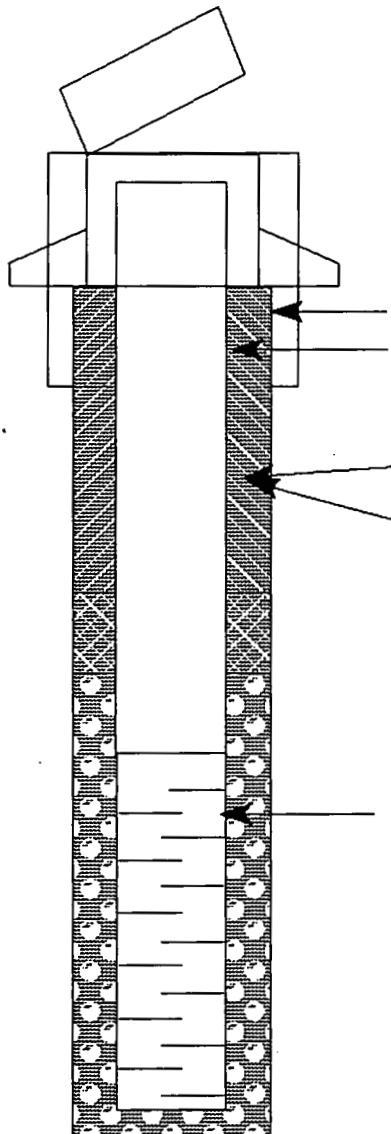


536.47 ft, Top of Casing (Protective pipe)
535.87 ft, Top of Well
534.5 ft, Concrete Elevation
534.0 ft, Ground Elevation
10 3/8 in, Boring Diameter
4 in, Casing Diameter
-2.5 Bottom Protective Pipe
S. S. Casing Material
 Grout
 Other Bentonite
0 ft, Top of Bentonite
2 ft, Bottom of Bentonite
3.5 ft, Top of Screen
 Well Screen
4 in, Diameter
.01 in, Slot
5 Length (ft)
S. S. Material
8.5 ft, Bottom of Screen
22.5 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 1045	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: October 9, 1987	CONTRACTOR: NA
FIELD ENG./GEOL.: D. Oakley	DRILLED BY: NA
TYPE OF SEAL: Bentonite	DRILLING METHOD: Cable-Tool Drilling
DEVELOPEMENT METHOD: NA	TYPE OF BIT: Flat Head Hammer
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA



548.15 ft, Top of Casing (Protective pipe)
547.59 ft, Top of Well
546.2 ft, Concrete Elevation
545.7 ft, Ground Elevation
10 3/8 in, Boring Diameter
4 in, Casing Diameter
-2.5 Bottom Protective Pipe
S. S. Casing Material
 Grout
 Other Bentonite
0 ft, Top of Bentonite

1.5 ft, Bottom of Bentonite

2.5 ft, Top of Screen

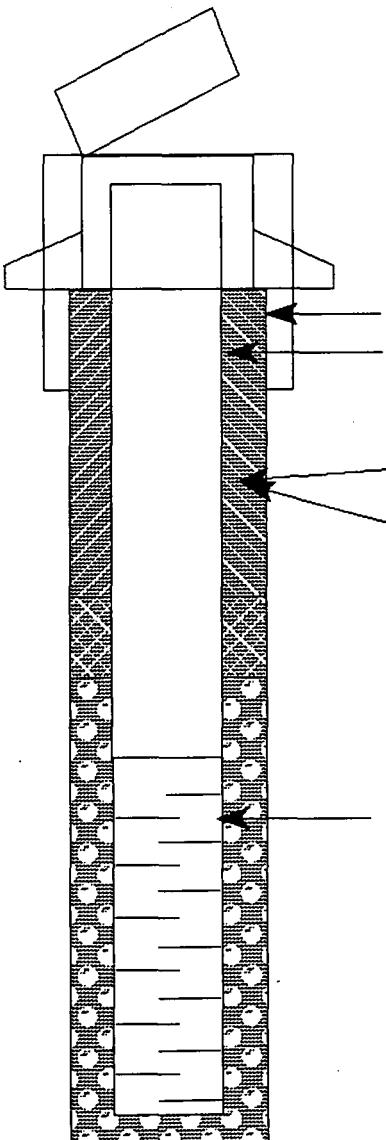
 Well Screen
4 ID in, Diameter
.01 in, Slot
5.4 Length (ft)
S. S. Material

7.9 ft, Bottom of Screen
18 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 1046	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: February 9, 1988	CONTRACTOR: NA
FIELD ENG./GEOL.: T. Sullivan	DRILLED BY: NA
TYPE OF SEAL: Bentonite	DRILLING METHOD: Cable-Tool Drilling
DEVELOPEMENT METHOD: NA	TYPE OF BIT: Flat Head Hammer
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA

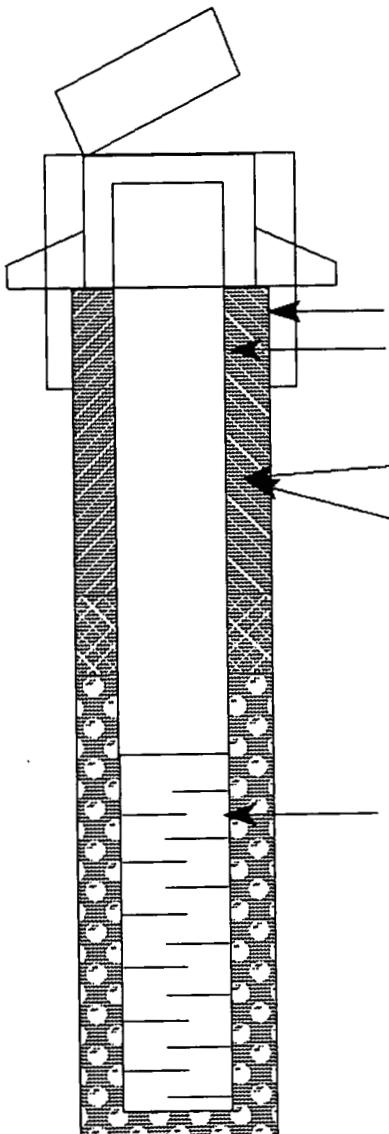


579.45 ft, Top of Casing (Protective pipe)
579.13 ft, Top of Well
NA ft, Concrete Elevation
576.5 ft, Ground Elevation
10 3/8 in, Boring Diameter
4 in, Casing Diameter
2.25 Bottom Protective Pipe
S. S. Casing Material
 Grout
 Other Bentontie
0 ft, Top of Bentonite
7 ft, Bottom of Bentonite
9.5 ft, Top of Screen
 Well Screen
4 ID in, Diameter
.01 in, Slot
10 Length (ft)
S. S. Material
19.5 ft, Bottom of Screen
28.5 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 1048	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: October 14, 1987	CONTRACTOR: NA
FIELD ENG./GEOL.: W. Kegley	DRILLED BY: NA
TYPE OF SEAL: Bentonite	DRILLING METHOD: Cable-Tool Drilling
DEVELOPEMENT METHOD: NA	TYPE OF BIT: Flat Head Hammer
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA

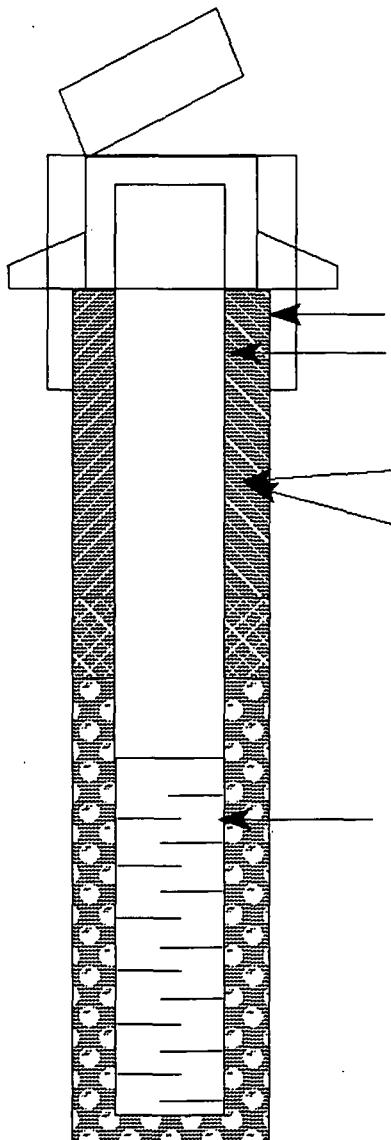


573.64 ft, Top of Casing (Protective pipe)
573.17 ft, Top of Well
571.8 ft, Concrete Elevation
571.3 ft, Ground Elevation
10 3/8 in, Boring Diameter
4 in, Casing Diameter
.25 Bottom Protective Pipe
S. S. Casing Material
 Grout
 Other Bentonite
0 ft, Top of Bentonite
3.5 ft, Bottom of Bentonite
5.5 ft, Top of Screen
 Well Screen
4 ID in, Diameter
.01 in, Slot
10 Length (ft)
S. S. Material
15.5 ft, Bottom of Screen
19.5 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	1065	COUNTY:	Hamilton
PROJECT ID:	NA	STATE:	Ohio
DATE INSTALLED:	October 6, 1987	CONTRACTOR:	NA
FIELD ENG./GEOL.:	D. Oakley	DRILLED BY:	NA
TYPE OF SEAL:	Bentonite	DRILLING METHOD:	Cable-Tool Drilling
DEVELOPEMENT METHOD:	NA	TYPE OF BIT:	Flat Head Hammer
SURVEY DATUM		SAND PACK TYPE:	NA
		WATER LEVEL/DATE:	NA

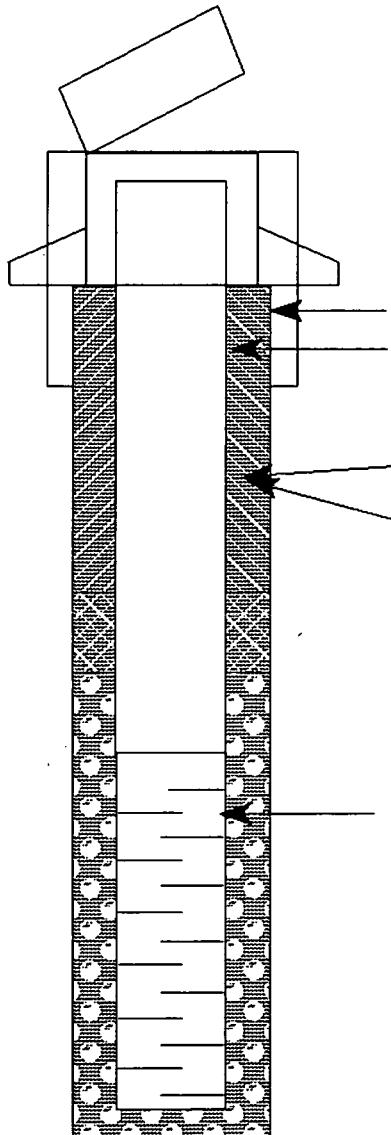


573.26 ft, Top of Casing (Protective pipe)
572.96 ft, Top of Well
571.4 ft, Concrete Elevation
570.9 ft, Ground Elevation
10 3/8 in, Boring Diameter
4 in, Casing Diameter
2.5 Bottom Protective Pipe
S. S. Casing Material
 Grout
 Other Bentonite
0 ft, Top of Bentonite
1.5 ft, Bottom of Bentonite
3 ft, Top of Screen
 Well Screen
4 ID in, Diameter
.01 in, Slot
10.6 Length (ft)
S. S. Material
13.6 ft, Bottom of Screen
14 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	1516	COUNTY:	Hamilton
PROJECT ID:	NA	STATE:	Ohio
DATE INSTALLED:	May 19, 1990	CONTRACTOR:	NA
FIELD ENG./GEOL.:	M. Garman	DRILLED BY:	NA
TYPE OF SEAL:	Bentonite	DRILLING METHOD:	Auger
DEVELOPEMENT METHOD:	NA	TYPE OF BIT:	Auger
SURVEY DATUM		SAND PACK TYPE:	NA
		WATER LEVEL/DATE:	NA

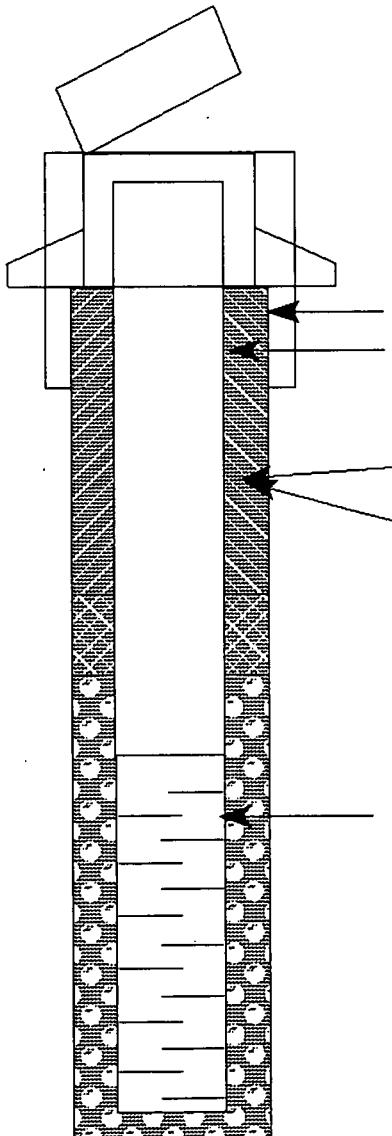


541.2 ft, Top of Casing (Protective pipe)
540.95 ft, Top of Well
539.31 ft, Concrete Elevation
538.81 ft, Ground Elevation
8 in, Boring Diameter
2 in, Casing Diameter
2.5 Bottom Protective Pipe
40 PVC Casing Material
 Grout
 Other Bentonite
1 ft, Top of Bentonite
7.5 ft, Bottom of Bentonite
9.5 ft, Top of Screen
 Well Screen
2 ID in, Diameter
.02 in, Slot
10 Length (ft)
40 PVC Material
19.5 ft, Bottom of Screen
20 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	1517	COUNTY:	Hamilton
PROJECT ID:	NA	STATE:	Ohio
DATE INSTALLED:	May 21, 1990	CONTRACTOR:	NA
FIELD ENG./GEOL.:	M. Garman	DRILLED BY:	NA
TYPE OF SEAL:	Bentonite	DRILLING METHOD:	Auger
DEVELOPEMENT METHOD:	NA	TYPE OF BIT:	Auger
SURVEY DATUM		SAND PACK TYPE:	NA
		WATER LEVEL/DATE:	NA

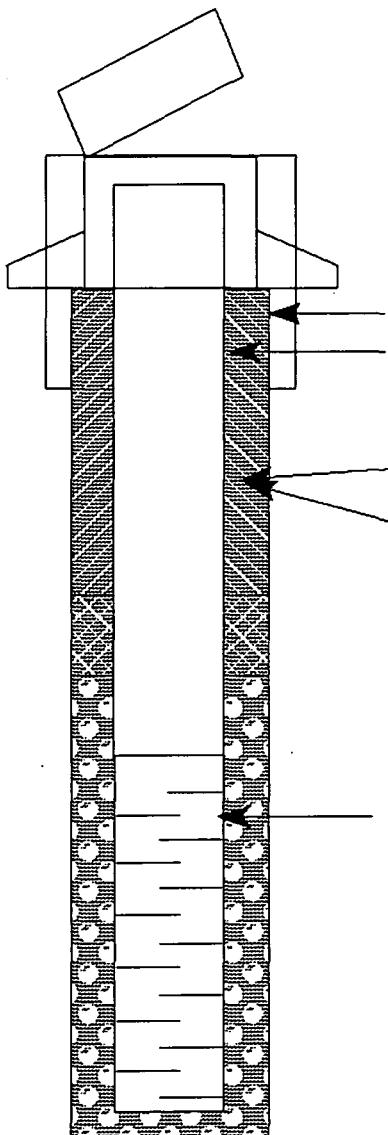


- 540.33 ft, Top of Casing (Protective pipe)
- 540.06 ft, Top of Well
- 538.56 ft, Concrete Elevation
- 538.06 ft, Ground Elevation
- 8 in, Boring Diameter
- 2 in, Casing Diameter
- 2.5 Bottom Protective Pipe
- 40 PVC Casing Material
- Grout
- Other Bentonite
- 1 ft, Top of Bentonite
- 6.5 ft, Bottom of Bentonite
- 10 ft, Top of Screen
- Well Screen
- 2 ID in, Diameter
- .02 in, Slot
- 10 Length (ft)
- 40 PVC Material
- 20 ft, Bottom of Screen
- 20 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 1518	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: May 22, 1990	CONTRACTOR: NA
FIELD ENG./GEOL.: M. Garman	DRILLED BY: NA
TYPE OF SEAL: Bentonite	DRILLING METHOD: Auger
DEVELOPEMENT METHOD: NA	TYPE OF BIT: Auger
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA

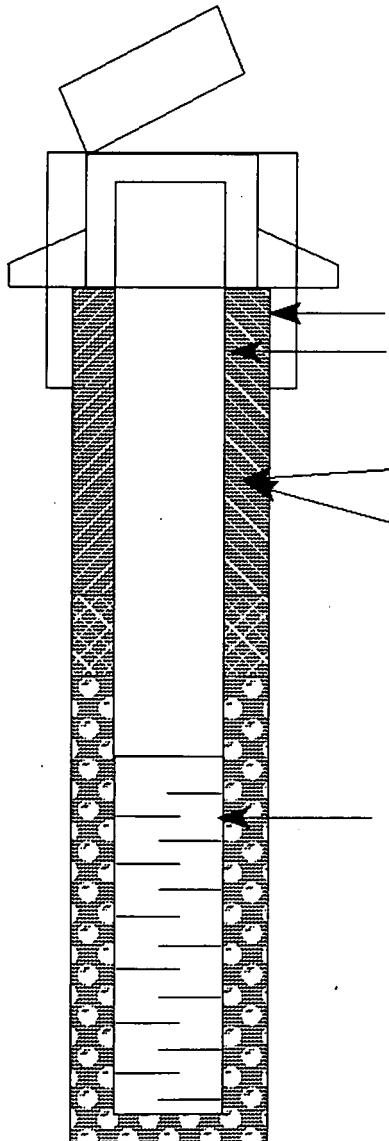


539.08 ft, Top of Casing (Protective pipe)
538.77 ft, Top of Well
537.26 ft, Concrete Elevation
536.76 ft, Ground Elevation
8 in, Boring Diameter
2 in, Casing Diameter
2.5 Bottom Protective Pipe
40 PVC Casing Material
 Grout
 Other Bentonite
1 ft, Top of Bentonite
7.5 ft, Bottom of Bentonite
10 ft, Top of Screen
 Well Screen
2 ID in, Diameter
.02 in, Slot
10 Length (ft)
40 PVC Material
20 ft, Bottom of Screen
20 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 1941	COUNTY: Hamilton
PROJECT ID: 20.03.05	STATE: Ohio
DATE INSTALLED: 4-26-93	CONTRACTOR: Pennsylvania Drilling Co.
FIELD ENG./GEOL.: Debes, Boyer	DRILLED BY: Joe Raab, Roger Davis
TYPE OF SEAL: Grout/Slurry	DRILLING METHOD: Hollow Stem Auger
DEVELOPEMENT METHOD: Surge-Bail	TYPE OF BIT: Auger
SURVEY DATUM	SAND PACK TYPE: 10/20 Silica
	WATER LEVEL/DATE: 574.6/5-7-93

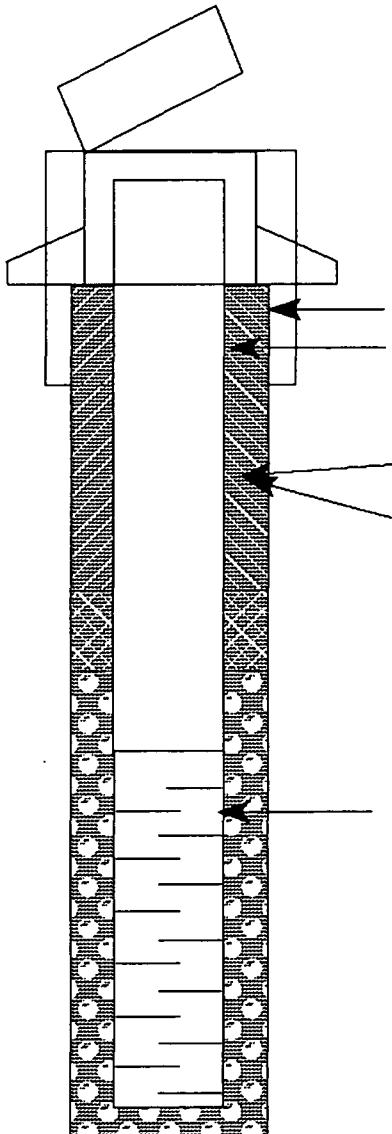


- 581.37 ft, Top of Casing (Protective pipe)
- 581.19 ft, Top of Well
- NA ft, Concrete Elevation
- 578.8 ft, Ground Elevation
- 8 in, Boring Diameter
- 2 in, Casing Diameter
- 2.5 Bottom Protective Pipe
- S. S. Casing Material
- Grout
- Other _____
- 1 ft, Top of Bentonite
- 2.5 ft, Bottom of Bentonite
- 5.5 ft, Top of Screen
- Well Screen
- 2 in, Diameter
- .01 in, Slot
- 7 Length (ft)
- S. S. Material
- 12.5 ft, Bottom of Screen
- 13.5 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 1942	COUNTY: Hamilton
PROJECT ID: 20.03.05	STATE: Ohio
DATE INSTALLED: 4-13-93	CONTRACTOR: Pennsylvania Drilling Co.
FIELD ENG./GEOL.: Smith, D. O'Brian	DRILLED BY: Kevin Myers, Donny Arthur
TYPE OF SEAL: Bentonite	DRILLING METHOD: Auger
DEVELOPEMENT METHOD: Surge-Bail	TYPE OF BIT: Hollow Stem Auger
SURVEY DATUM	SAND PACK TYPE: 10/20 Silica
	WATER LEVEL/DATE: 573.34/5-7-93



578.42 ft, Top of Casing (Protective pipe)
577.77 ft, Top of Well
NA ft, Concrete Elevation
576.5 ft, Ground Elevation
8 in, Boring Diameter
2 in, Casing Diameter
2.5 Bottom Protective Pipe
S. S. Casing Material
 Grout
 Other _____
1.5 ft, Top of Bentonite
4 ft, Bottom of Bentonite
5.1 ft, Top of Screen
 Well Screen
2 in, Diameter
.01 in, Slot
98 Length (ft)
S. S. Material
14.9 ft, Bottom of Screen
16 ft, Bottom of Boring

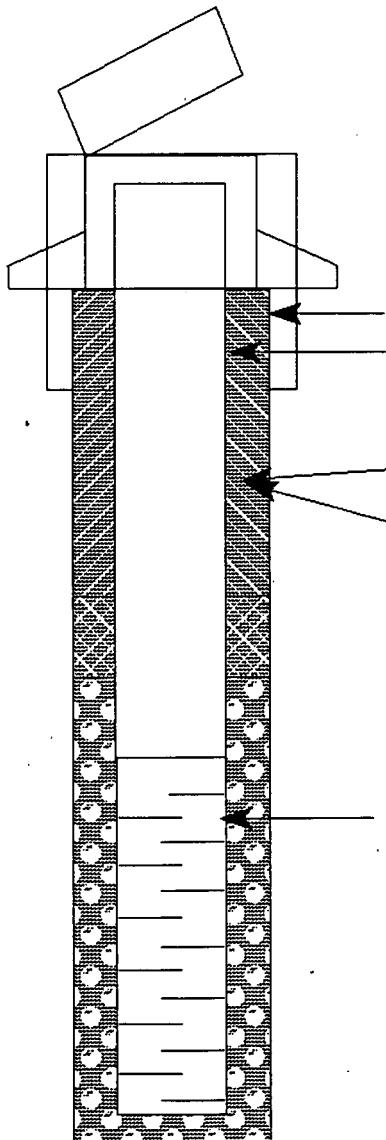
Note: Elevations in feet
above mean sea level.

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FEMP-OU02-6 FINAL
January 21, 1995

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	1954	COUNTY:	Hamilton
PROJECT ID:	20.03.05	STATE:	Ohio
DATE INSTALLED:	May 15, 1993	CONTRACTOR:	Pennsylvania Drilling
FIELD ENG./GEOL.:	D. O'Brien	DRILLED BY:	Jeff Bentley, Bill Sebert
TYPE OF SEAL:	Grout/Slurry	DRILLING METHOD:	NA
DEVELOPEMENT METHOD:	Surge-Bail	TYPE OF BIT:	Auger
SURVEY DATUM		SAND PACK TYPE:	10/20 Silica
		WATER LEVEL/DATE:	563.18/7-8-93



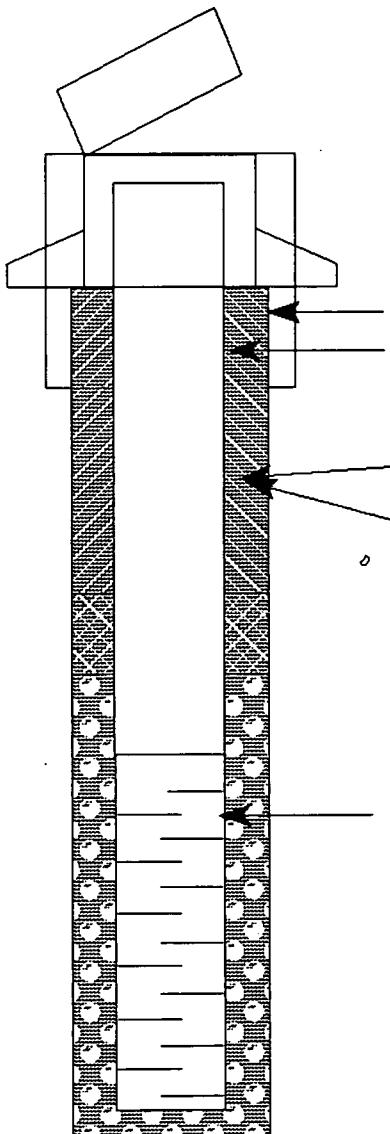
- 577.64 ft, Top of Casing (Protective pipe)
- 577.08 ft, Top of Well
- 575.45 ft, Concrete Elevation
- 574.95 ft, Ground Elevation
- 8 in, Boring Diameter
- 2 in, Casing Diameter
- 2.5 Bottom Protective Pipe
- S. S. Casing Material
- Grout
- Other _____
- 1 ft, Top of Bentonite
- 4 ft, Bottom of Bentonite
- 9 ft, Top of Screen
- Well Screen
- 2 in, Diameter
- .01 in, Slot
- 10 Length (ft)
- S. S. Material
- 19 ft, Bottom of Screen
- 20 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

001264

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 2016	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: NA	CONTRACTOR: NA
FIELD ENG./GEOL.: NA	DRILLED BY: NA
TYPE OF SEAL: NA	DRILLING METHOD: NA
DEVELOPEMENT METHOD: NA	TYPE OF BIT: NA
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA



542.39 ft, Top of Casing (Protective pipe)
541.3 ft, Top of Well
540.6 ft, Concrete Elevation
NA ft, Ground Elevation
NA in, Boring Diameter
NA in, Casing Diameter
NA Bottom Protective Pipe
NA Casing Material
 Grout
 Other _____
NA ft, Top of Bentonite

NA ft, Bottom of Bentonite

NA ft, Top of Screen

 Well Screen

NA in, Diameter

NA in, Slot

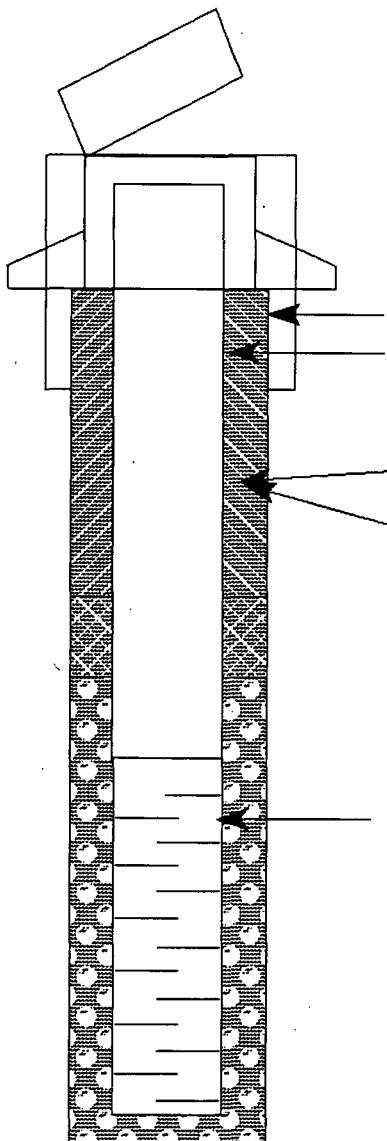
NA Length (ft)
NA Material

NA ft, Bottom of Screen
NA ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	2048	COUNTY:	Hamilton
PROJECT ID:	NA	STATE:	Ohio
DATE INSTALLED:	November 30, 1988	CONTRACTOR:	NA
FIELD ENG./GEOL.:	B. Hertel	DRILLED BY:	NA
TYPE OF SEAL:	Bentonite	DRILLING METHOD:	Cable-Tool Drilling
DEVELOPEMENT METHOD:	NA	TYPE OF BIT:	Flat Head Hammer
SURVEY DATUM		SAND PACK TYPE:	NA
		WATER LEVEL/DATE:	NA



574.02 ft, Top of Casing (Protective pipe)

573.56 ft, Top of Well

NA ft, Concrete Elevation

571.5 ft, Ground Elevation

10 3/8 in, Boring Diameter

4 in, Casing Diameter

2.5 Bottom Protective Pipe

S. S. Casing Material

Grout

Other _____

39 ft, Top of Bentonite

45 ft, Bottom of Bentonite

50 ft, Top of Screen

Well Screen

4 ID in, Diameter

.01 in, Slot

15 Length (ft)

S. S. Material

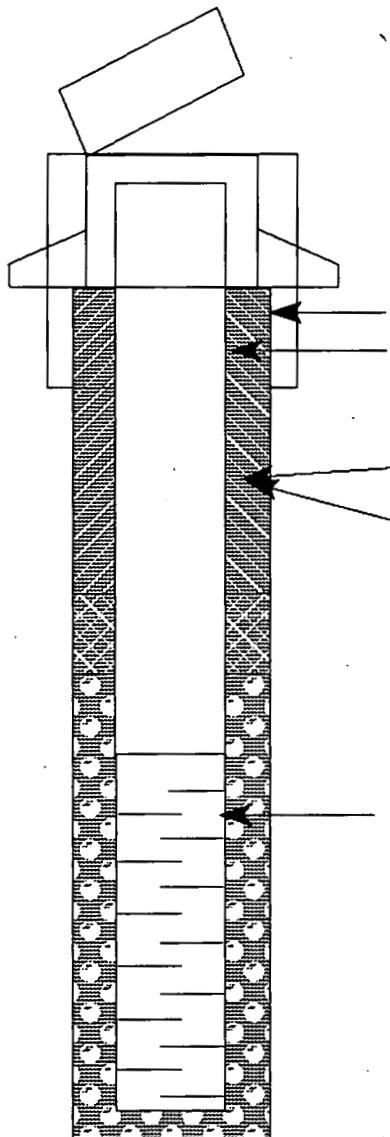
65 ft, Bottom of Screen

68 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	2049	COUNTY:	Hamilton
PROJECT ID:	NA	STATE:	Ohio
DATE INSTALLED:	October 14, 1987	CONTRACTOR:	NA
FIELD ENG./GEOL.:	L Wille	DRILLED BY:	NA
TYPE OF SEAL:	Bentonite	DRILLING METHOD:	Cable-Tool Drilling
DEVELOPEMENT METHOD:	NA	TYPE OF BIT:	Flat Head Hammer
SURVEY DATUM		SAND PACK TYPE:	NA
		WATER LEVEL/DATE:	NA

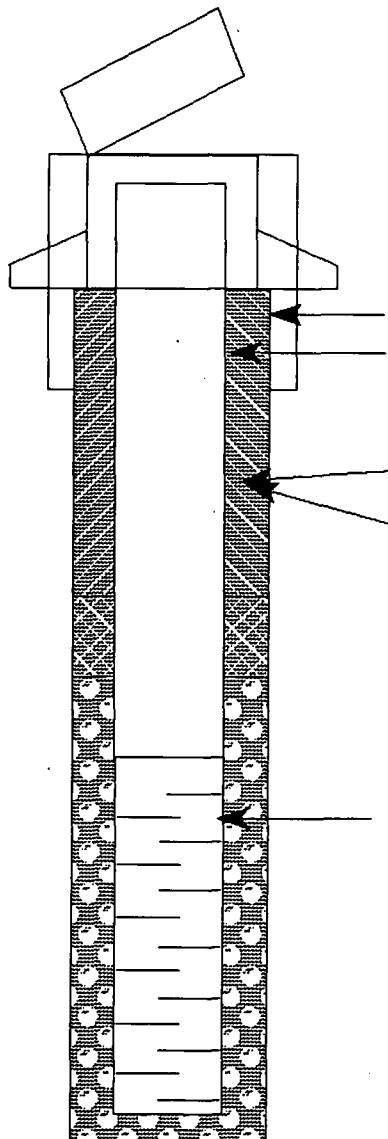


- 543.13 ft, Top of Casing (Protective pipe)
542.71 ft, Top of Well
541.2 ft, Concrete Elevation
540.7 ft, Ground Elevation
10 3/8 in, Boring Diameter
4 in, Casing Diameter
2.5 Bottom Protective Pipe
S. S. Casing Material
 Grout
 Other _____
11 ft, Top of Bentonite
16 ft, Bottom of Bentonite
18 ft, Top of Screen
 Well Screen
4 ID in., Diameter
.01 in, Slot
15 Length (ft)
S. S. Material
33 ft, Bottom of Screen
41.5 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 2065	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: October 3, 1987	CONTRACTOR: NA
FIELD ENG./GEOL.: L. Wille	DRILLED BY: NA
TYPE OF SEAL: Bentonite	DRILLING METHOD: Cable-Tool Drilling
DEVELOPEMENT METHOD: NA	TYPE OF BIT: Flat Head Hammer
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA



573.81 ft, Top of Casing (Protective pipe)

573.36 ft, Top of Well

NA ft, Concrete Elevation

571.5 ft, Ground Elevation

10 3/8 in, Boring Diameter

4 in, Casing Diameter

-2.5 Bottom Protective Pipe

S. S. Casing Material

Grout

Other _____

39.5 ft, Top of Bentonite

44.5 ft, Bottom of Bentonite

46.5 ft, Top of Screen

Well Screen

4 ID in, Diameter

.01 in, Slot

15 Length (ft)

S. S. Material

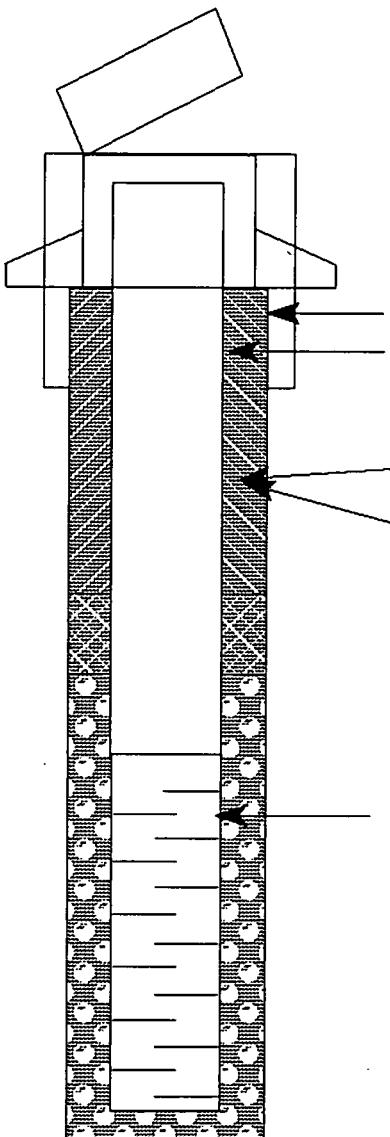
61.5 ft, Bottom of Screen

66.5 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 2385	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: April 25, 1990	CONTRACTOR: NA
FIELD ENG./GEOL.: M. Swanson	DRILLED BY: NA
TYPE OF SEAL: Bentonite	DRILLING METHOD: Cable-Tool Drilling
DEVELOPEMENT METHOD: NA	TYPE OF BIT: Flat Head Hammer
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA

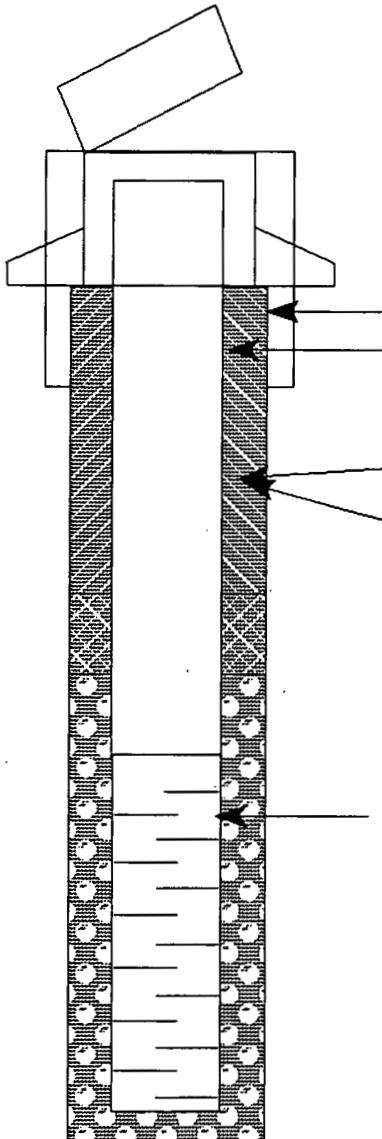


- 579.86 ft, Top of Casing (Protective pipe)
- 579.35 ft, Top of Well
- NA ft, Concrete Elevation
- 577.6 ft, Ground Elevation
- 10 3/8 in, Boring Diameter
- 4 in, Casing Diameter
- 2.5 Bottom Protective Pipe
- S. S. Casing Material
- Grout
- Other _____
- 42 ft, Top of Bentonite
- 48 ft, Bottom of Bentonite
- 53 ft, Top of Screen
- Well Screen
- 4 ID in, Diameter
- .01 in, Slot
- 15 Length (ft)
- S. S. Material
- 68 ft, Bottom of Screen
- 75 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	2401	COUNTY:	Hamilton
PROJECT ID:	NA	STATE:	Ohio
DATE INSTALLED:	March 5, 1992	CONTRACTOR:	NA
FIELD ENG./GEOL.:	NA	DRILLED BY:	NA
TYPE OF SEAL:	Bentonite	DRILLING METHOD:	Cable-Tool Drilling
DEVELOPEMENT METHOD:	NA	TYPE OF BIT:	Churn Bit
SURVEY DATUM		SAND PACK TYPE:	NA
		WATER LEVEL/DATE:	NA

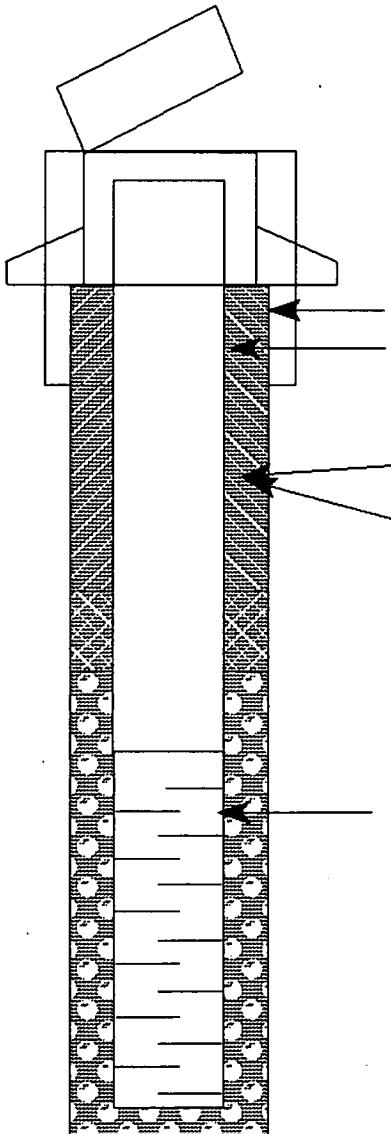


- 571.86 ft, Top of Casing (Protective pipe)
- 571.26 ft, Top of Well
- NA ft, Concrete Elevation
- 569.4 ft, Ground Elevation
- 10 3/8 in, Boring Diameter
- 4 in, Casing Diameter
- 2.5 Bottom Protective Pipe
- S. S. Casing Material
- Grout
- Other _____
- 35.7 ft, Top of Bentonite
- 40 ft, Bottom of Bentonite
- 44 ft, Top of Screen
- Well Screen
- 4 ID in, Diameter
- .01 in, Slot
- 15 Length (ft)
- S. S. Material
- 59 ft, Bottom of Screen
- 65 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 2943	COUNTY: Hamilton
PROJECT ID: 20.03.05	STATE: Ohio
DATE INSTALLED: April 20, 1993	CONTRACTOR: Pennsylvania Drilling Co.
FIELD ENG./GEOL.: Ken Geiger	DRILLED BY: Dave Newman
TYPE OF SEAL: Grout/Slurry	DRILLING METHOD: Cable Tool
DEVELOPEMENT METHOD: Bail-Surge-Bail	TYPE OF BIT: Hammer Percussion Bit
SURVEY DATUM	SAND PACK TYPE: 10/20 Silica
	WATER LEVEL/DATE: 523.13/5-7-93

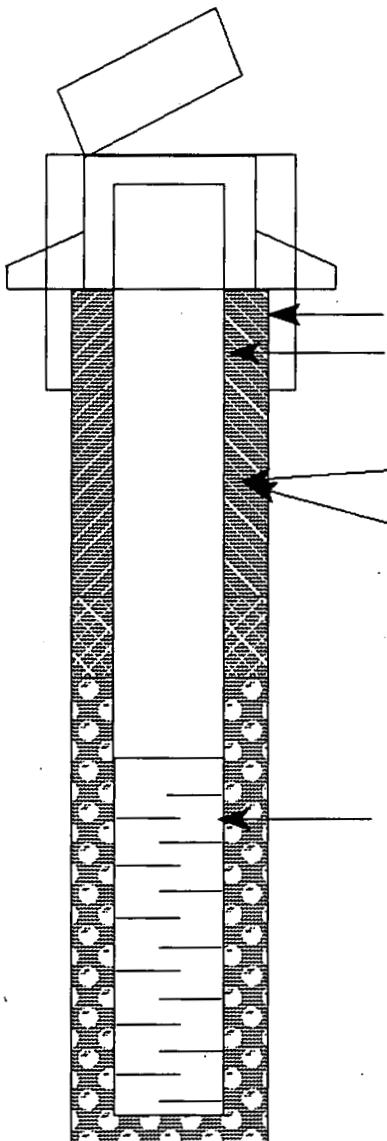


- 575.94 ft, Top of Casing (Protective pipe)
- 575.64 ft, Top of Well
- NA ft, Concrete Elevation
- 573.5 ft, Ground Elevation
- 10 3/8 in, Boring Diameter
- 4 in, Casing Diameter
- 2.5 Bottom Protective Pipe
- S. S. Casing Material
 - Grout
 - Other _____
- 1 ft, Top of Bentonite
- 39 ft, Bottom of Bentonite
- 49 ft, Top of Screen
- Well Screen
 - 4 in, Diameter
 - .01 in, Slot
 - 15 Length (ft)
 - S. S. Material
- 64 ft, Bottom of Screen
- 70 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	2944	COUNTY:	Hamilton
PROJECT ID:	20.03.05	STATE:	Ohio
DATE INSTALLED:	6-23-93	CONTRACTOR:	Pennsylvania Drilling Co.
FIELD ENG./GEOL.:	D. O'Brian	DRILLED BY:	NA
TYPE OF SEAL:	Grout/Slurry	DRILLING METHOD:	Cable Tool
DEVELOPEMENT METHOD:	Bail-Surge-Bail	TYPE OF BIT:	Churn Bit
SURVEY DATUM		SAND PACK TYPE:	10/20 Silica
		WATER LEVEL/DATE:	522.31/7-8-93



576.38 ft, Top of Casing (Protective pipe)

576.05 ft, Top of Well

NA ft, Concrete Elevation

574.1 ft, Ground Elevation

10 3/8 in, Boring Diameter

4 in, Casing Diameter

2.5 Bottom Protective Pipe

S. S. Casing Material

Grout

Other _____

1 ft, Top of Bentonite

39.9 ft, Bottom of Bentonite

50 ft, Top of Screen

Well Screen

4 in., Diameter

.01 in, Slot

15 Length (ft)

S. S. Material

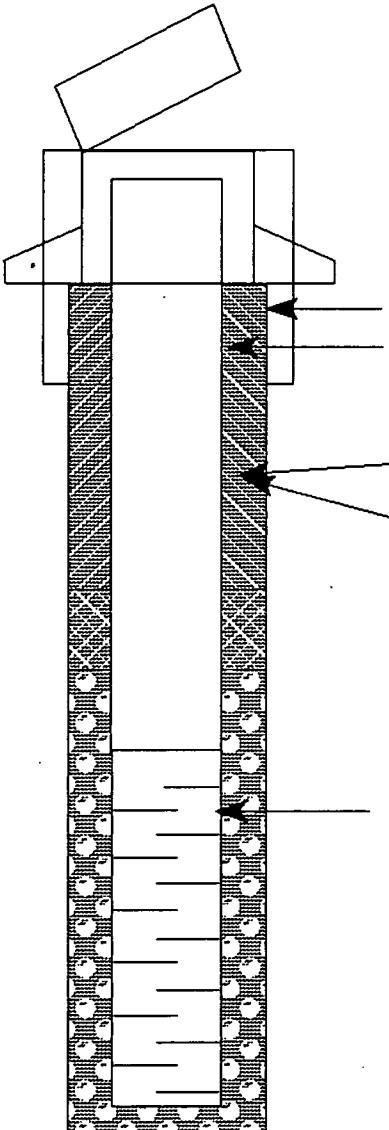
65 ft, Bottom of Screen

67 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 2945	COUNTY: Hamilton
PROJECT ID: 20.03.05	STATE: Ohio
DATE INSTALLED: April 7, 1993	CONTRACTOR: Pennsylvania Drilling
FIELD ENG./GEOL.: Ken Geiger	DRILLED BY: Dave Newman, Jeff Bentley
TYPE OF SEAL: Grout/Slurry	DRILLING METHOD: Cable Tool
DEVELOPEMENT METHOD: Bail-Surge-Bail	TYPE OF BIT: Hammer Percussion Bit
SURVEY DATUM	SAND PACK TYPE: 10/20 Silica
	WATER LEVEL/DATE: 523.71/5-7-93



569.24 ft, Top of Casing (Protective pipe)

568.71 ft, Top of Well

NA ft, Concrete Elevation

566.7 ft, Ground Elevation

10 3/8 in, Boring Diameter

4 in, Casing Diameter

2.5 Bottom Protective Pipe

S. S. Casing Material

Grout

Other _____

1 ft, Top of Bentonite

28.5 ft, Bottom of Bentonite

38.5 ft, Top of Screen

Well Screen

4 in, Diameter

.02 in, Slot

15 Length (ft)

S. S. Material

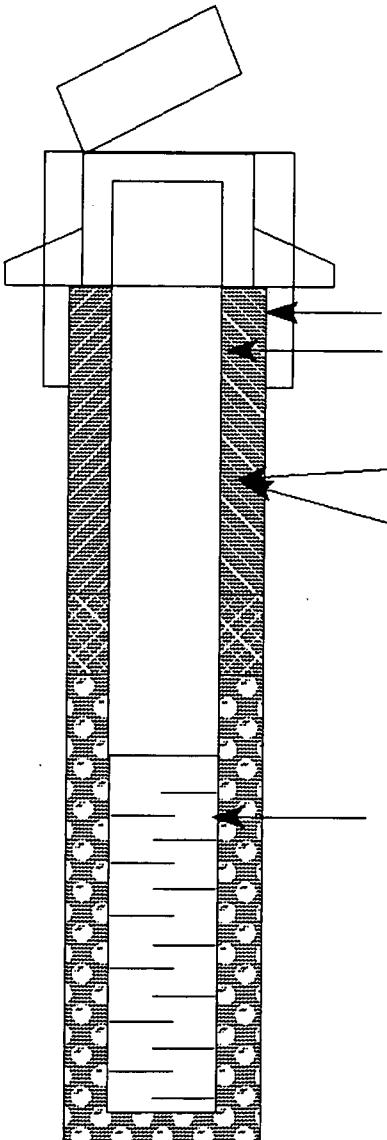
53.5 ft, Bottom of Screen

60 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	2954	COUNTY:	Hamilton
PROJECT ID:	20.03.05	STATE:	Ohio
DATE INSTALLED:	June 7, 1993	CONTRACTOR:	Pennsylvania Drilling
FIELD ENG./GEOL.:	Ken Geiger	DRILLED BY:	Dave Newman
TYPE OF SEAL:	Grout/Slurry	DRILLING METHOD:	Cable Tool
DEVELOPEMENT METHOD:	Bail-Surge-Bail	TYPE OF BIT:	Hammer Percussion Bit
SURVEY DATUM		SAND PACK TYPE:	10/20 Silica
		WATER LEVEL/DATE:	522.30/7-8-93

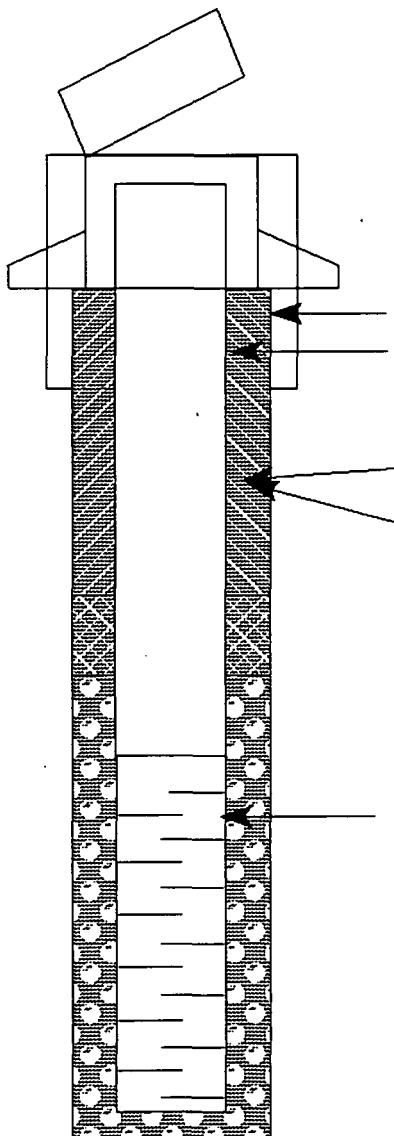


Note: Elevations in feet
above mean sea level.

- 578.41 ft, Top of Casing (Protective pipe)
- 577.82 ft, Top of Well
- NA ft, Concrete Elevation
- 576 ft, Ground Elevation
- 10 3/8 in, Boring Diameter
- 4 in, Casing Diameter
- 2.5 Bottom Protective Pipe
- S. S. Casing Material
 - Grout
 - Other _____
- 1 ft, Top of Bentonite
- 37 ft, Bottom of Bentonite
- 47 ft, Top of Screen
- Well Screen
- 4 in, Diameter
- .01 in, Slot
- 15 Length (ft)
- S. S. Material
- 62 ft, Bottom of Screen
- 65 ft, Bottom of Boring

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	3045	COUNTY:	Hamilton
PROJECT ID:	NA	STATE:	Ohio
DATE INSTALLED:	May 17, 1990	CONTRACTOR:	NA
FIELD ENG./GEOL.:	M. Garman	DRILLED BY:	NA
TYPE OF SEAL:	Bentonite	DRILLING METHOD:	Cable-Tool Drilling
DEVELOPEMENT METHOD:	NA	TYPE OF BIT:	Flat Head Hammer
SURVEY DATUM		SAND PACK TYPE:	NA
		WATER LEVEL/DATE:	NA



548.42 ft, Top of Casing (Protective pipe)
547.86 ft, Top of Well
546.23 ft, Concrete Elevation
545.83 ft, Ground Elevation
10 3/8 in, Boring Diameter
4 in, Casing Diameter
2.5 Bottom Protective Pipe
S. S. Casing Material
 Grout
 Other _____
78 ft, Top of Bentonite

106.5 ft, Bottom of Bentonite

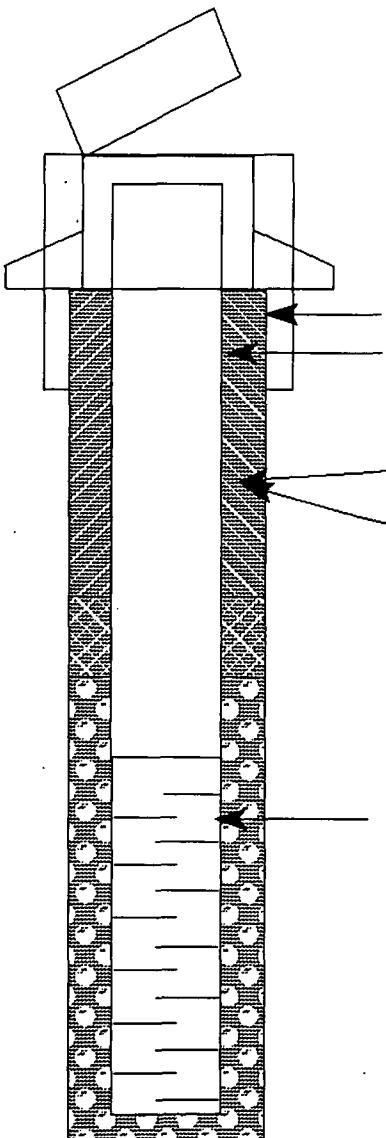
83 ft, Top of Screen

 Well Screen
 in, Diameter
.01 in, Slot
10 Length (ft)
S. S. Material
93 ft, Bottom of Screen
106.5 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 3046	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: June 4, 1990	CONTRACTOR: NA
FIELD ENG./GEOL.: M. Swanson	DRILLED BY: NA
TYPE OF SEAL: Grout	DRILLING METHOD: Cable-Tool Drilling
DEVELOPEMENT METHOD: NA	TYPE OF BIT: Flat Head Hammer
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA



579.09 ft, Top of Casing (Protective pipe)

578.6 ft, Top of Well

576.96 ft, Concrete Elevation

576.46 ft, Ground Elevation

10 3/8 in, Boring Diameter

4 in, Casing Diameter

-2.5 Bottom Protective Pipe

S. S. Casing Material

Grout

Other _____

0 ft, Top of Grout

110 ft, Bottom of Grout

115 ft, Top of Screen

Well Screen

4 ID in, Diameter

.01 in, Slot

10 Length (ft)

S. S. Material

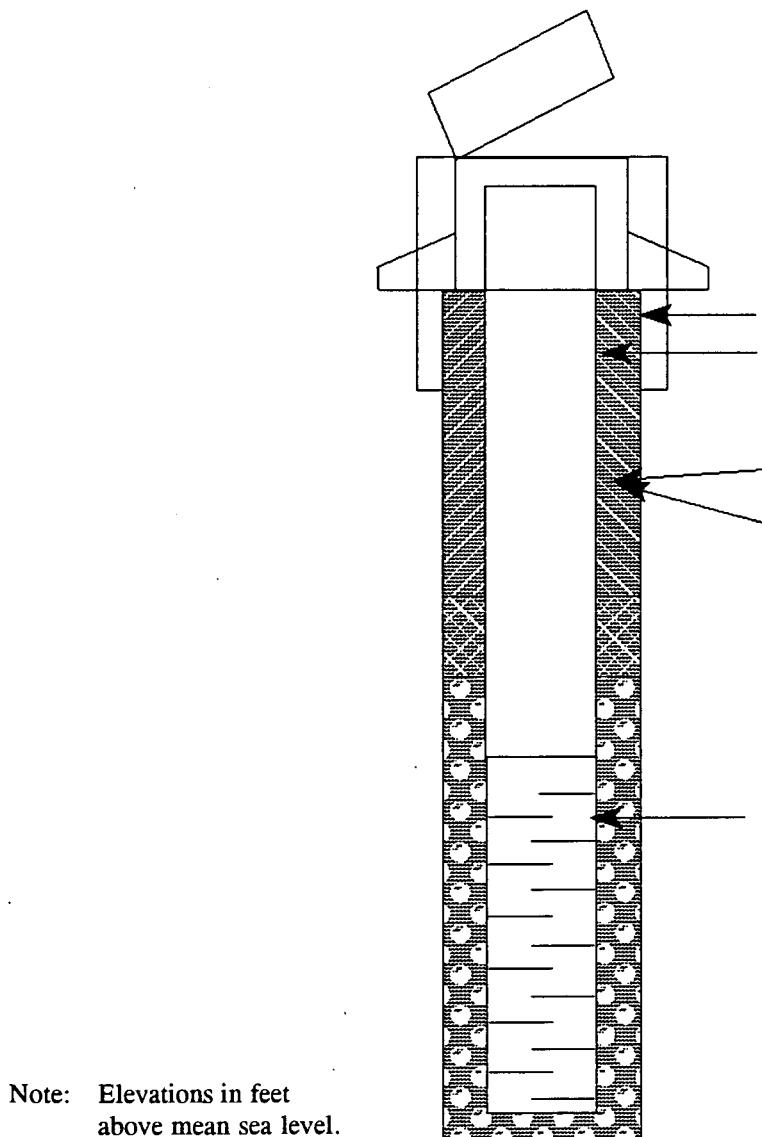
125 ft, Bottom of Screen

136.5 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 3049	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: November 8, 1988	CONTRACTOR: NA
FIELD ENG./GEOL.: L. Adams	DRILLED BY: NA
TYPE OF SEAL: Grout	DRILLING METHOD: Cable-Tool Drilling
DEVELOPEMENT METHOD: NA	TYPE OF BIT: Flat Head Hammer
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA



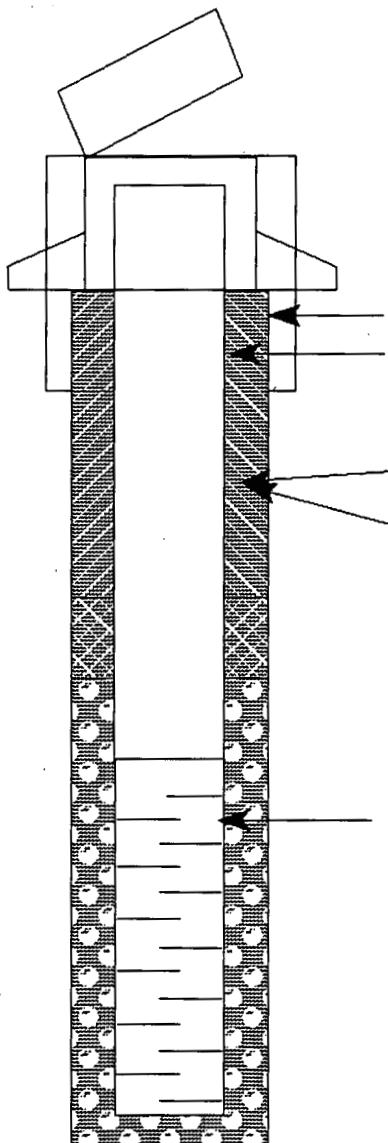
Note: Elevations in feet
above mean sea level.

543.12 ft, Top of Casing (Protective pipe)
542.5 ft, Top of Well
NA ft, Concrete Elevation
540.7 ft, Ground Elevation
10 3/8 in, Boring Diameter
4 in, Casing Diameter
2.5 Bottom Protective Pipe
S. S. Casing Material
 Grout
 Other Bentonite
5 ft, Top of Grout
73 ft, Bottom of Grout
78 ft, Top of Screen
 Well Screen
4 ID in, Diameter
.01 in, Slot
10 Length (ft)
S. S. Material
88 ft, Bottom of Screen
101.5 ft, Bottom of Boring

6509

FEMP-OU02-6 FINAL
January 21, 1995TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 3065	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: November 9, 1988	CONTRACTOR: NA
FIELD ENG./GEOL.: D. Hockstra	DRILLED BY: NA
TYPE OF SEAL: Grout	DRILLING METHOD: Cable-Tool Drilling
DEVELOPEMENT METHOD: NA	TYPE OF BIT: Flat Head Hammer
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA



573.93 ft, Top of Casing (Protective pipe)

573.41 ft, Top of Well

NA ft, Concrete Elevation

571.7 ft, Ground Elevation

10 3/8 in, Boring Diameter

4 in, Casing Diameter

2.5 Bottom Protective Pipe

S. S. Casing Material

 Grout Other Bentonite

2 ft, Top of Grout

103 ft, Bottom of Grout

110 ft, Top of Screen

Well Screen

4 OD in, Diameter

.01 in, Slot

10 Length (ft)

S. S. Material

120 ft, Bottom of Screen

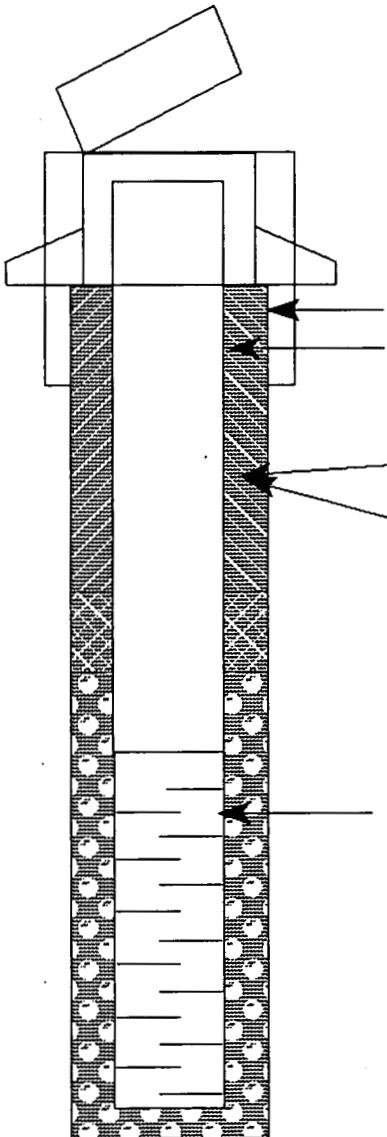
127.3 ft, Bottom of Boring

001278

Note: Elevations in feet
above mean sea level.

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 3385	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: July 1, 1990	CONTRACTOR: NA
FIELD ENG./GEOL.: M. Swanson	DRILLED BY: NA
TYPE OF SEAL: Grout	DRILLING METHOD: Cable-Tool Drilling
DEVELOPEMENT METHOD: NA	TYPE OF BIT: Flat Head Hammer
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA



579.78 ft, Top of Casing (Protective pipe)

579.29 ft, Top of Well

NA ft, Concrete Elevation

577.4 ft, Ground Elevation

10 3/8 in, Boring Diameter

4 in, Casing Diameter

-2.5 Bottom Protective Pipe

S. S. Casing Material

Grout

Other _____

0 ft, Top of Grout

110 ft, Bottom of Grout

115 ft, Top of Screen

Well Screen

4 ID in., Diameter

.01 in, Slot

10 Length (ft)

S. S. Material

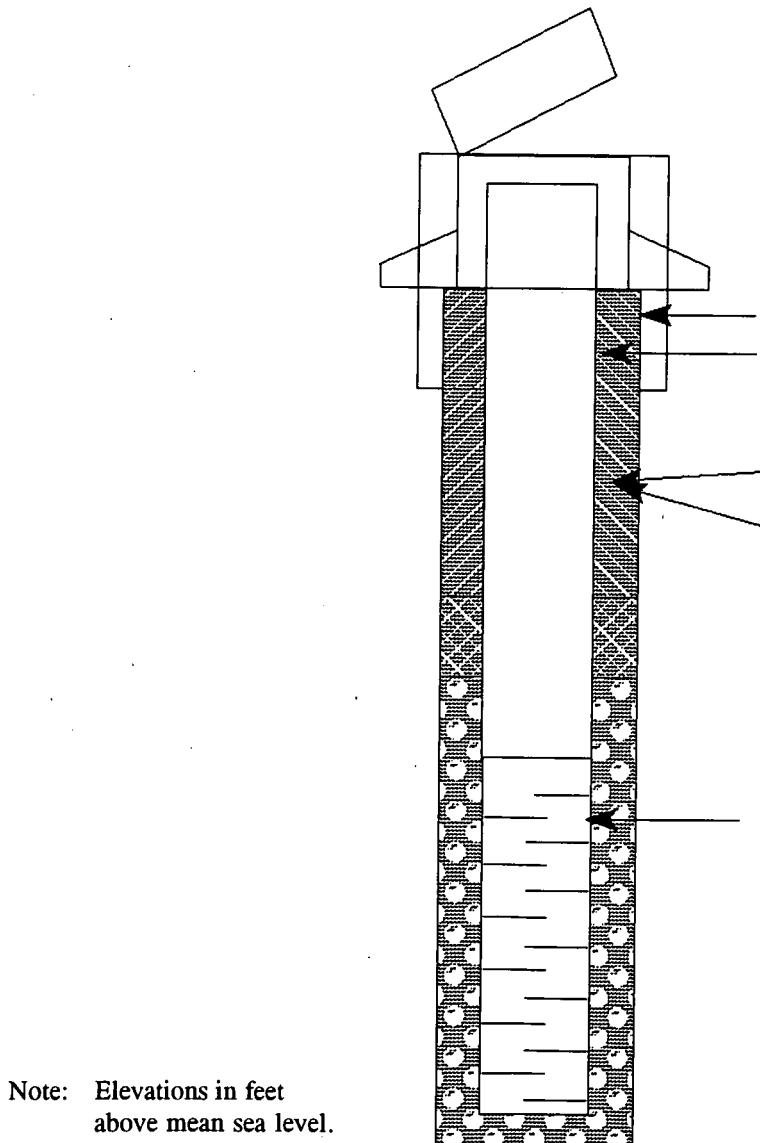
125 ft, Bottom of Screen

126.7 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 4016	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: January 5, 1989	CONTRACTOR: NA
FIELD ENG./GEOL.: M. Slusarski	DRILLED BY: NA
TYPE OF SEAL: Grout	DRILLING METHOD: Cable-Tool Drilling
DEVELOPEMENT METHOD: NA	TYPE OF BIT: Flat Head Hammer
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA

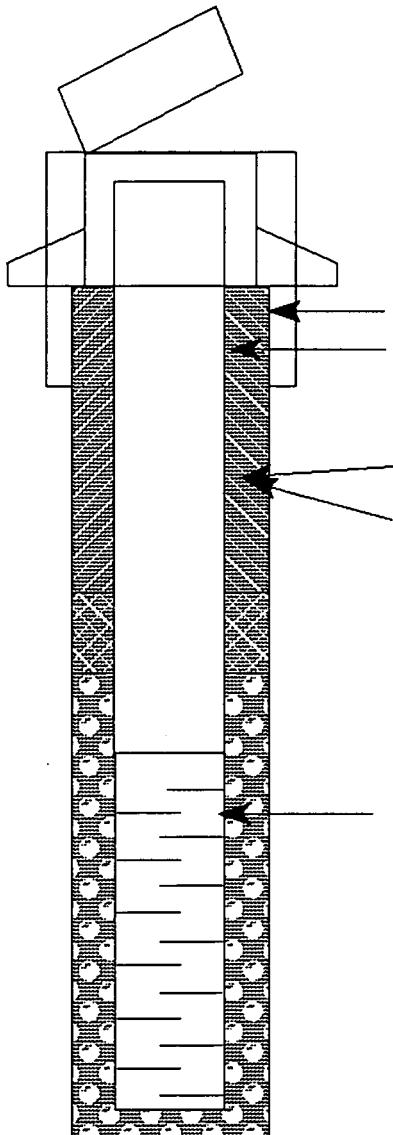


Note: Elevations in feet
above mean sea level.

- 542.25 ft, Top of Casing (Protective pipe)
541.7 ft, Top of Well
NA ft, Concrete Elevation
539.7 ft, Ground Elevation
10 3/8 in, Boring Diameter
4 in, Casing Diameter
2.5 Bottom Protective Pipe
 Casing Material
 Grout
 Other _____
0 ft, Top of Grout
137 ft, Bottom of Grout
143 ft, Top of Screen
 Well Screen
4 ID in, Diameter
.01 in, Slot
10.3 Length (ft)
S. S. Material
153.3 ft, Bottom of Screen
163.2 ft, Bottom of Boring

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 11032	COUNTY: Hamilton
PROJECT ID: 20.03.05	STATE: Ohio
DATE INSTALLED: 6-25-93	CONTRACTOR: Pennsylvania Drilling Co.
FIELD ENG./GEOL.: B. E. Muller	DRILLED BY: NA
TYPE OF SEAL: Grout/Slurry	DRILLING METHOD: Hollow Stem Auger
DEVELOPEMENT METHOD: Surge-Bail	TYPE OF BIT: Hollow Stem Auger
SURVEY DATUM	SAND PACK TYPE: 10/20 Silica
	WATER LEVEL/DATE: 572.20/7-8-93

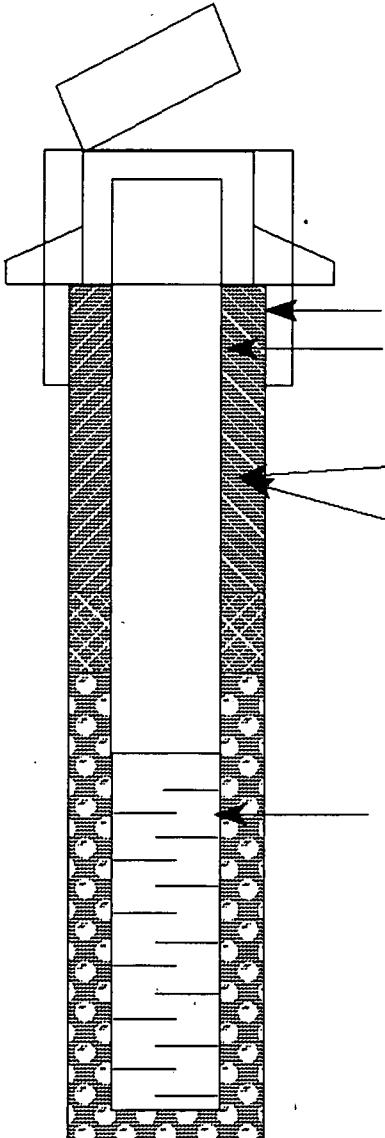


579.56 ft, Top of Casing (Protective pipe)
579.06 ft, Top of Well
577.57 ft, Concrete Elevation
577.07 ft, Ground Elevation
8 in, Boring Diameter
2 in, Casing Diameter
2.75 Bottom Protective Pipe
S. S. Casing Material
 Grout
 Other _____
1 ft, Top of Bentonite
2 ft, Bottom of Bentonite
5.25 ft, Top of Screen
 Well Screen
2 in, Diameter
.01 in, Slot
5 Length (ft)
S. S. Material
10.25 ft, Bottom of Screen
15.25 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE F-19
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	11085	COUNTY:	Hamilton
PROJECT ID:	20.03.05	STATE:	Ohio
DATE INSTALLED:	5-28-93	CONTRACTOR:	Pennsylvania Drilling Co.
FIELD ENG./GEOL.:	A. Como	DRILLED BY:	NA
TYPE OF SEAL:	Grout/Slurry	DRILLING METHOD:	4 1/4 Hollow Stem Auger
DEVELOPEMENT METHOD:	Surge-Bail	TYPE OF BIT:	4 1/4 Hollow Stem Auger
SURVEY DATUM		SAND PACK TYPE:	10/20 Silica
		WATER LEVEL/DATE:	573.4/6-2-93



- 579.79 ft, Top of Casing (Protective pipe)
- 579.52 ft, Top of Well
- NA ft, Concrete Elevation
- 577.6 ft, Ground Elevation
- 8 in, Boring Diameter
- 2 in, Casing Diameter
- 2.5 Bottom Protective Pipe
- S. S. Casing Material
- Grout
- Other _____
- 1 ft, Top of Bentonite
- 4 ft, Bottom of Bentonite
- 6 ft, Top of Screen
- Well Screen
- 2 in, Diameter
- 10 in, Slot
- 10 Length (ft)
- S. S. Material
- 16 ft, Bottom of Screen
- 16.5 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

6509

TABLE F-20

TABLE F-20A
SOUTH FIELD
GROUNDWATER ELEVATION DATA^a, 1988 - 1992
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Year	Well No.	January	February	March	April	May	June	July	August	September	October	November	December
1988	1014	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
1988	1020	569.50	571.68	572.34	571.58	569.66	568.58	567.16	567.18	566.51	565.98	568.42	568.91
1988	1046	NMT ^b	NMT	NMT	NMT	569.28	567.69	565.48	564.68	563.98	563.53	563.18	563.66
1988	1065	561.75	565.71	566.72	565.96	563.81	562.38	561.41	558.06	559.69	559.66	559.51	560.71
1988	2014	NMT	DRY	521.56	521.89	DRY	520.20	DRY	519.04	518.49	518.06	517.69	517.49
1988	2020	NMT	519.54	520.44	521.17	521.18	520.22	519.82	519.21	518.64	518.20	517.60	517.60
1988	2065	518.96	519.57	520.72	521.29	521.00	520.36	519.61	519.06	518.44	517.98	517.58	517.43
1989	1014	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
1989	1020	571.68	571.01	572.31	571.47	571.83	572.06	569.67	568.45	570.06	567.48	571.90	569.56
1989	1046	569.66	570.76	574.10	572.95	573.73	572.32	569.59	566.29	567.04	564.83	570.33	567.64
1989	1065	566.12	565.09	567.86	565.47	566.11	565.71	563.11	561.82	562.78	561.16	564.28	563.52
1989	2014	519.02	519.06	521.02	522.90	523.84	524.30	522.94	521.95	521.53	519.51	521.16	520.24
1989	2020	517.68	518.59	519.52	521.50	522.96	524.02	524.21	522.62	522.04	520.00	521.00	521.02
1989	2046	518.26	518.95	520.16	522.30	523.49	524.11	523.17	522.37	521.89	519.79	520.17	520.71
1989	2065	517.75	518.44	519.59	521.81	523.23	524.17	523.34	522.45	521.84	519.78	520.93	520.71
1990	1014	DRY	DRY	DRY	DRY	525.61	525.44	525.16	524.11	525.10	525.09	525.05	DRY
1990	1020	572.00	572.08	571.83	571.67	572.25	569.93	571.12	569.24	570.00	NMT	570.90	571.55
1990	1046	573.31	573.66	572.65	573.11	574.58	571.19	571.29	567.98	566.28	573.73	571.24	572.90
1990	1065	567.45	566.36	565.27	565.66	567.60	564.71	565.25	562.58	562.22	NMT	564.67	565.54
1990	1516	NMT	NMT	NMT	NMT	NMT	524.59	524.00	522.98	522.20	523.23	523.06	528.29
1990	1517	NMT	NMT	NMT	NMT	NMT	524.54	524.01	522.97	522.21	523.29	523.07	523.31
1990	1518	NMT	NMT	NMT	NMT	NMT	527.57	524.06	522.93	522.23	523.42	523.14	523.34
1990	1523	NMT	NMT	NMT	NMT	NMT	570.08	568.87	569.14	570.65	NMT	570.22	
1990	2014	521.27	522.50	523.72	523.96	525.44	524.41	524.02	522.87	522.13	523.34	523.07	523.31

See footnotes at end of table.

TABLE F-20A
(Continued)

Year	Well No.	January	February	March	April	May	June	July	August	September	October	November	December
1990	2020	520.80	521.62	523.03	523.40	523.92	524.81	524.10	523.67	522.86	NMT	523.10	523.28
1990	2046	521.01	522.21	523.53	523.81	524.75	524.86	524.13	523.45	522.57	523.07	523.26	523.69
1990	2065	520.72	521.10	523.14	523.33	524.33	524.55	523.86	523.17	522.45	522.15	522.82	522.90
1991	1014	525.42	525.22	DRY	NMT	525.31	NMT	524.14	525.13	525.13	DRY	DRY	DRY
1991	1020	572.20	572.47	572.36	NMT	NMT	569.00	568.23	568.40	568.06	566.84	566.92	569.31
1991	1046	574.37	574.59	573.55	NMT	570.87	NMT	565.84	565.20	565.09	564.19	563.83	564.00
1991	1065	567.06	567.50	567.44	NMT	563.42	NMT	561.22	560.14	560.44	560.10	560.42	560.03
1991	1516	525.05	525.10	525.06	NMT	524.26	NMT	522.41	521.78	521.43	520.57	519.95	DRY
1991	1517	525.09	525.12	525.12	NMT	524.32	NMT	522.43	521.81	521.43	520.42	519.93	519.35
1991	1518	525.10	525.15	525.10	NMT	524.27	NMT	522.48	521.82	521.46	520.47	519.97	519.40
1991	1523	570.67	571.21	570.87	NMT	NMT	568.76	568.38	568.70	568.97	567.86	565.73	569.10
1991	2014	525.06	525.11	525.02	NMT	524.27	NMT	522.41	521.76	521.39	520.39	519.92	519.33
1991	2020	524.49	524.98	525.02	NMT	NMT	524.28	523.02	521.71	521.70	NMT	NMT	519.36
1991	2046	524.92	525.13	525.18	NMT	524.90	NMT	522.88	522.15	521.72	520.72	520.19	519.49
1991	2065	525.09	525.01	524.92	NMT	NMT	NMT	522.62	521.77	521.35	520.42	519.75	519.17
1992	1014	DRY	DRY	DRY	525.04	NMT	525.04	DRY	525.07	DRY	DRY	DRY	DRY
1992	1020	571.35	570.37	570.07	570.87	NMT	569.11	NMT	569.60	568.79	570.21	571.32	571.16
1992	1046	566.02	569.03	571.65	572.53	NMT	567.41	569.85	568.63	567.19	567.09	570.25	570.87
1992	1065	564.83	564.61	564.88	568.95	NMT	562.87	NMT	563.36	562.18	563.14	564.96	565.22
1992	1516	519.64	519.65	DRY	NMT	NMT	NMT	520.30	520.03	NMT	NMT	NMT	520.72
1992	1517	519.61	519.67	519.37	NMT	NMT	NMT	520.33	517.43	NMT	NMT	NMT	520.75
1992	1518	519.68	519.73	519.92	NMT	NMT	NMT	DRY	520.08	NMT	NMT	NMT	520.80
1992	1523	570.28	569.57	570.36	569.90	NMT	568.86	570.16	568.89	568.78	569.64	570.38	569.92
1992	2014	519.71	518.72	519.36	520.42	NMT	519.45	520.50	520.05	519.70	519.72	519.96	520.86
1992	2020	NMT	520.07	519.21	NMT	519.49	NMT	NMT	522.16	519.70	519.60	519.62	520.38
1992	2046	519.50	519.67	519.57	520.13	NMT	519.87	520.27	520.22	519.87	519.77	519.81	520.57
1992	2065	519.16	519.06	518.91	519.26	NMT	519.44	518.85	520.29	519.99	519.20	519.67	520.53

See footnotes at end of table.

TABLE F-20A
(Continued)

Year	Well No.	January	February	March	April	May	June	July	August	September	October	November	December
MISCELLANEOUS GROUNDWATER ELEVATION													
1988	1025	NMT	569.82	570.33	570.04	561.54	568.34	570.85	571.07	571.16	570.88	570.75	570.63
1988	1064	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	559.92
1988	1080	NMT	NMT	NMT	NMT	560.15	567.24	567.55	560.89	567.71	567.83	567.73	568.18
1988	1081	575.10	575.95	576.69	576.89	575.49	575.35	575.05	575.04	574.95	574.71	574.68	575.05
1988	2068	517.88	518.34	519.34	520.10	520.17	519.75	518.81	518.17	517.52	517.13	516.50	516.58
1989	1025	570.34	563.52	570.48	569.89	571.37	571.73	571.75	571.95	DRY	570.27	571.62	570.84
1989	1064	566.90	577.59	577.35	577.55	577.06	574.76	573.94	NMT	573.44	571.12	573.28	572.46
1989	1080	568.61	568.40	567.77	NMT	568.95	568.74	568.06	568.05	566.85	566.62	568.66	NMT
1989	1081	575.73	575.87	576.69	576.65	576.72	575.25	575.64	570.27	575.51	575.35	575.53	575.10
1989	2068	516.43	517.38	518.45	520.65	522.20	523.52	522.80	521.94	521.14	519.17	519.98	519.75
1989	2106	NMT	518.78	520.45	522.23	523.09	523.43	522.40	521.51	NMT	519.07	520.35	519.97
1990	1025	570.63	NMT	NMT	570.95	570.38	571.63	571.84	567.72	572.08	572.27	569.76	571.57
1990	1064	573.71	576.65	NMT	575.50	575.41	574.95	NMT	573.03	572.98	565.36	574.30	576.57
1990	1080	567.98	568.72	NMT	568.72	564.65	568.64	NMT	568.37	568.69	567.36	NMT	569.46
1990	1081	575.63	563.32	NMT	576.00	577.49	576.13	576.07	575.79	575.71	577.05	575.75	NMT
1990	2068	519.49	520.14	NMT	522.23	522.74	523.68	523.02	522.66	521.59	521.59	521.85	521.85
1990	2106	520.57	521.75	522.81	523.05	524.29	523.65	523.20	522.32	521.84	522.66	522.35	522.62
1990	2385	NMT	NMT	NMT	NMT	524.11	519.57	523.73	523.07	522.22	522.46	522.73	522.83
1990	2397	NMT	NMT	NMT	NMT	NMT	NMT	NMT	522.61	521.93	521.99	521.99	522.21
1991	1025	571.37	566.77	NMT	NMT	NMT	570.50	571.58	571.89	NMT	572.11	572.19	571.59
1991	1032	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	559.11	559.10	559.49
1991	1064	579.80	579.37	579.57	NMT	NMT	575.18	NMT	573.24	NMT	NMT	NMT	NMT
1991	1080	569.21	568.91	NMT	NMT	NMT	565.70	564.22	NMT	NMT	NMT	NMT	NMT
1991	1081	NMT	NMT	NMT	NMT	NMT	576.54	NMT	NMT	NMT	NMT	NMT	NMT
1991	1907	NMT	NMT	NMT	NMT	NMT	NMT	DRY	NMT	NMT	NMT	NMT	NMT
1991	2068	524.12	524.08	524.14	NMT	NMT	523.41	521.98	520.74	NMT	519.36	518.68	517.85

See footnotes at end of table.

TABLE F-20A
(Continued)

Year	Well No.	January	February	March	April	May	June	July	August	September	October	November	December
MISCELLANEOUS GROUNDWATER ELEVATION (continued)													
1991	2106	524.05	522.99	524.35	NMT	NMT	523.34	NMT	521.21	520.90	NMT	NMT	NMT
1991	2385	524.71	524.10	524.73	NMT	524.34	NMT	522.45	521.71	521.28	520.40	519.74	519.00
1991	2397	524.46	524.38	524.26	NMT	NMT	523.38	521.97	521.20	520.62	519.79	519.08	518.27
1992	1025	572.19	568.27	NMT	NMT	NMT	570.89	565.54	572.03	572.39	571.88	571.64	571.29
1992	1032	561.02	559.05	559.09	559.50	NMT	560.49	561.05	559.17	559.46	560.17	560.88	559.16
1992	2068	517.60	517.60	517.44	517.56	NMT	517.29	518.63	519.52	519.07	518.71	518.68	519.37
1992	2385	518.98	519.05	518.89	519.23	NMT	519.20	NMT	519.91	519.87	519.47	519.49	520.25
1992	2397	517.99	518.07	517.95	518.18	NMT	518.63	518.91	NMT	519.33	519.01	519.00	519.63

^aFeet above Mean Sea Level

^bNo measurement taken

F-20-4

001286

TABLE F-20B
SOUTH FIELD
GROUNDWATER ELEVATION DATA^a, 1993
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

F-205

001282

Well No.	3/18/93	3/23/93	4/09/93	4/19/93	5/07/93	5/19/93	6/2/93	6/21/93	7/08/93	7/19/93	8/02/93	8/16/93
1014	525.02	NMT ^b	NMT	524.97	525.02	NMT	524.97	525.03	525.07	525.01	525.04	NMT
1046	573.62	574.33	573.07	574.12	572.12	571.85	570.44	569.63	568.21	567.09	566.19	565.46
1065	565.00	564.92	565.84	566.90	565.34	565.26	564.04	563.33	562.58	562.12	561.59	561.21
1433	560.07	560.21	560.05	NMT	559.97	558.63	558.49	558.39	558.23	558.07	557.92	557.54
1516	522.57	522.86	522.94	523.12	523.14	523.14	522.22	522.35	521.93	521.50	521.29	519.90
1517	522.61	522.91	523.03	523.15	NMT	523.14	522.23	522.41	521.91	521.57	521.36	521.10
1518	522.66	522.96	522.23	523.22	523.24	523.18	522.26	522.46	521.90	521.58	521.17	521.09
1941	NMT	NMT	NMT	NMT	574.60	574.53	NMT	572.82	571.81	570.73	569.13	567.99
1942	NMT	NMT	NMT	NMT	573.34	NMT	569.70	NMT	566.78	565.54	564.23	563.33
1954	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	563.18	562.74	562.43	562.08
2014	522.78	521.95	524.28	523.33	523.23	523.21	522.22	522.44	521.84	521.54	521.29	521.10
2046	522.21	522.38	522.89	522.92	523.18	523.17	522.59	521.49	521.15	521.81	521.68	521.28
2065	521.86	NMT	522.69	522.81	522.97	523.01	522.51	522.49	522.11	521.95	521.79	521.35
2385	521.83	522.03	522.45	522.54	NMT	522.77	NMT	NMT	NMT	NMT	NMT	NMT
2401	522.94	523.30	523.63	523.68	523.89	523.90	523.22	523.14	522.76	522.30	522.19	521.79
2943	NMT	NMT	NMT	NMT	523.13	NMT	522.40	NMT	522.02	521.64	521.57	521.17
2944	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	522.31	521.95	521.83	521.45
2945	NMT	NMT	NMT	NMT	523.71	523.73	522.93	522.91	522.47	522.05	521.91	521.53
2954	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	522.30	521.92	521.80	520.41

See footnotes at end of table.

TABLE F-20B
(Continued)

Well No.	3/18/93	3/23/93	4/09/93	4/19/93	5/07/93	5/19/93	6/2/93	6/21/93	7/08/93	7/19/93	8/02/93	8/16/93
11032	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	572.20	NMT	570.15	569.40
11085	NMT	NMT	NMT	NMT	NMT	NMT	573.40	573.33	572.54	571.99	571.15	570.77

^aFeet above Mean Sea Level

^bNo measurement taken

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